Naval Facilities Engineering Command, Southwest Contracts Department 1220 Pacific Highway, Building 127, Room 112 San Diego, California 92132-5190

CTO No. 0003

# FINAL INTERIM REMEDIAL ACTION REPORT FOR UST SITE 1441

March 24, 2006

MARINE CORPS BASE CAMP PENDLETON, CALIFORNIA

**DCN: SES-TECH-06-0072** 

Prepared by:

**SES-TECH** 

18000 International Boulevard, Suite 1009 Seattle, WA 98188

> Mark Cutler, P.G., C.HG. Project Manager

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#### ABBREVIATIONS AND ACRONYMS

μg/kg micrograms per kilogram

μg/L micrograms per liter

Battelle Battelle Memorial Institute

bgs below ground surface

DEH Department of Environmental Health
EPA US Environmental Protection Agency

FWENC Foster Wheeler Environmental Corporation

LCS laboratory control sample

MCB Marine Corps Base

MCL Maximum Contaminant Level

mg/kg milligrams per kilogram

mg/L milligrams per liter

MTBE methyl tert-butyl ether

NAVFAC SW Naval Facilities Engineering Command, Southwest Division

PAH polynuclear aromatic hydrocarbon

PRG Preliminary Remediation Goal

RL reporting limit

SESTECH Sealaska Environmental Services LLC and TetraTech EC, Inc.

SPLP Synthetic Precipitation Leaching Procedure

TPH total petroleum hydrocarbons

TPH-d total petroleum hydrocarbons quantified as diesel
TPH-g total petroleum hydrocarbons quantified as gasoline
TPH-jf total petroleum hydrocarbons quantified as jet fuel
TPH-mo total petroleum hydrocarbons quantified as motor oil

TtEC Tetra Tech EC, Inc.

UST Underground Storage Tank
VOC volatile organic compound

Water Board California Regional Water Quality Control Board

Work Plan Interim Remedial Action Work Plan

WQO Water Quality Objective

#### 1.0 INTRODUCTION

This Interim Remedial Action Report summarizes well abandonment and soil excavation activities completed at Underground Storage Tank (UST) Site 1441, located in the 14 Area of Marine Corps Base (MCB) Camp Pendleton, California (Figure 1-1). The site contained an UST that used to store diesel that leaked and impacted both soil and groundwater. The work was completed based on comments received from the California Regional Water Quality Control Board (Water Board) in a letter dated June 10, 2004 (reference: SMC:50-3424.05:grifb) and discussions held during a meeting with the Water Board on June 1, 2005. This report was prepared by SES-TECH, a joint venture between Sealaska Environmental Services LLC and Tetra Tech EC, Inc. (TtEC) under the Naval Facilities Engineering Command, Southwest (NAVFAC SW) Environmental Remediation Contract No. N68711-04-D-1104, Contract Task Order No. 0003.

#### 1.1 SITE IDENTIFICATION

**Site Address:** Building 1441, 14 Area, MCB Camp Pendleton,

California 92055

**Facility:** 1<sup>st</sup> Human Intelligence Unit Office Building

Water Board Case No.: 9UT3424

**Department of** 

**Environmental Health** 

(DEH) Case No.:

H05939-306

**Property Owner:** United States Marine Corps

**MCB Camp Pendleton** 

**Contact:** 

Mr. Chet Storrs, Remediation Branch Manager Assistant Chief of Staff, Environmental Security

Building 22165

MCB Camp Pendleton, CA 92055-5008

(760) 725-9774

**Remedial Project** Mr. Bipin Patel

Manager: NAVFAC SW

1220 Pacific Highway

San Diego, CA 92132-5181

(619) 532-4814

**Responsible Party:** United States Marine Corps

#### 1.2 OBJECTIVES

The primary objective of the interim remedial action was to remove as much contaminated soils as practical from the former tank cavity area. The scope of work for this project included the following tasks:

- Develop an Interim Remedial Action Work Plan (Work Plan; SES-TECH, 2005) prior to field implementation
- Destroy three groundwater monitoring wells located in the area of proposed excavation prior to soil excavation activities
- Excavate as much impacted soil as practical around the former tank cavity
- Collect excavation confirmation soil samples
- Restore the site to its original condition
- Transport and properly dispose of excavated soil
- Prepare a soil excavation report (this document)

#### 2.0 PHYSICAL SETTING AND PREVIOUS INVESTIGATIONS

The following sections provide a brief description of the site, local geology and hydrogeology, and a summary of previous site activities.

#### 2.1 SITE DESCRIPTION

Site 1441 is located on 15<sup>th</sup> Street in the 14 Area of MCB Camp Pendleton, approximately 700 feet southeast of the intersection of 15<sup>th</sup> Street and 16<sup>th</sup> Street (Figure 2-1). Building 1441 was constructed on stanchions approximately 2 to 4 feet above the ground surface and currently functions as an office building housing the 1<sup>st</sup> Human Intelligence Unit. The site previously contained a 1,000-gallon, reinforced concrete UST that was used to store diesel fuel for heating the building. The tank was 7 feet tall (extending 12 inches aboveground) and 6 feet in diameter.

The site is relatively flat and has asphalt driveways on the north and south sides of the building, and a parking area located on the west side of the building. The site is located on the western edge of Pilgrim Creek Canyon with approximately 70 feet of vertical relief to the creek bed below.

#### 2.2 GEOLOGY AND HYDROGEOLOGY

The geology at Site 1441 primarily consists of a thin layer of fine- to medium-grained sands overlying both weathered and very competent granitic bedrock. The sands are considered part of the Middle-Eocene Santiago Formation of the La Jolla Group. The weathered and competent bedrock are encountered at various depths between approximately 2 to 10 feet below ground surface (bgs). During soil excavation activities in the area of the former tank cavity, the bedrock was encountered as shallow as 2 feet bgs.

According to the *Water Quality Control Plan for the San Diego Basin* (Water Board, 1994), Site 1441 is located within the Mission Hydrologic Subarea of the Lower San Luis Hydrologic Area within the San Luis Rey Hydrologic Unit. Groundwater in this area has designated beneficial uses including municipal and domestic supply, agricultural supply, industrial process supply, and industrial service supply. However, no groundwater supply wells are located within 2 miles of the site.

The site is located approximately 500 feet to the west of Pilgrim Creek, which is a tributary to the San Luis Rey River. Surface water from Pilgrim Creek has been designated by the Water Board to have beneficial uses for agricultural supply, industrial service supply, contact water recreation, non-contact water recreation, warm freshwater habitat, and wildlife habitat.

During the most recent groundwater monitoring event completed at the site in June 2003 [Foster Wheeler Environmental Corporation (FWENC), 2003], groundwater was first encountered

between approximately 5 and 18 feet bgs. Water-level data collected from the site indicated that groundwater flowed to the southwest with an approximate hydraulic gradient of 0.3 feet per foot (FWENC, 2003). During June 2003 sampling event, free product was not reported in any well.

#### 2.3 UST REMOVAL

In 1997, the 1,000-gallon diesel UST was removed from the site. The excavation was 12 feet by 11 feet and approximately 7 feet deep. A Hazardous Materials Specialist from the DEH directed soil sampling activities. Two soil samples were collected from beneath the tank cavity and one sample was collected from where the pipeline entered the building. The samples were analyzed for total petroleum hydrocarbons (TPH) quantified as gasoline (TPH-g) and TPH quantified as diesel (TPH-d). TPH-g was not detected, but TPH-d was detected at 3,800 and 8,100 milligrams per kilogram (mg/kg) in the samples beneath the tank and at 9,300 mg/kg in the sample from beneath the pipeline. The locations of the samples and analytical results are shown on Figure 2-2.

Following the tank excavation, the area was backfilled with the excavated soil and with clean fill to replace the void created by removing the tank.

#### 2.4 SITE ASSESSMENT

In September 1998, a site assessment was completed consisting of eight soil borings (SB01 to SB08) [Battelle Memorial Institute (Battelle), 1999]. The soil borings were located around the former UST and fill pipeline where hydrocarbons had been detected during tank removal activities (Figure 2-2).

The initial boring (SB01) was continuously cored in the former tank cavity for lithologic characterization to a depth of 8 feet bgs, at which point the core barrel was refused by competent bedrock and groundwater was encountered. The boring was further advanced to a total depth of 15 feet with an air rotary drilling rig (SB01A). Boring SB02 was located near the southeast corner of the building to investigate the area surrounding the former remote fill location and was hand-augered to 6.5 feet bgs. The remaining soil borings (SB03 through SB08) were advanced to depths ranging from 50 to 60 feet bgs around the former tank cavity using an air rotary drilling rig due to the difficult drilling conditions. Saturated sediments and/or moist bedrock were detected during drilling in each soil boring, except SB05, which was angle drilled to the northeast under the building. Soil samples were typically collected every 5 feet during drilling, and six permanent groundwater monitoring wells were subsequently installed.

All soil and groundwater samples were analyzed for TPH-d, TPH quantified as jet fuel (TPH-jf), and TPH quantified as motor oil (TPH-mo). Based on visual inspection of the soil cuttings, specific soil samples were also analyzed for volatile organic compounds (VOCs) and polynuclear aromatic hydrocarbons (PAHs). All groundwater samples were also analyzed for VOCs and PAHs. Synthetic Precipitation Leaching Procedure (SPLP) tests were performed on two soil

samples with relatively high TPH-d concentrations and one soil sample with the lowest TPH-d concentration above 100 mg/kg.

The initial boring (SB01), drilled to 15 feet bgs, encountered groundwater between 7 and 8 feet bgs, and the top of the competent bedrock at approximately 8 feet bgs. The groundwater was believed to have been accumulated in the former UST excavation and was perched by the underlying competent bedrock. Drilling of the other borings indicated that groundwater was present in two zones. The first, or shallow zone, was near the former UST excavation perched above the competent bedrock. The second, or deeper zone, occurred at various depths between approximately 10 and 35 feet bgs within the weathered and fractured bedrock in each boring. Upon completion of the monitoring wells, infiltrating water entered by what appeared to be relatively slow seepage from the fractured granodioritic bedrock that filled the borings to varying depths ranging from 14 to 22 feet bgs.

Free product was observed in several borings prior to the installation of monitoring wells. Measurable thicknesses of free product were observed in borings SB03 (0.05 feet), SB04 (0.09 feet), SB06 (0.26 feet), SB07 (0.14 feet), and SB08 (0.26 feet). Following the installation of the groundwater monitoring wells, but prior to well development, free product was only observed in MW01 (SB08) at 0.02 feet. After well development and immediately prior to sampling on October 28, 1998, free product was observed in well MW02 (SB04) at a thickness of 0.15 feet and a sheen was observed in well MW01. Table 2-1 provides a summary of the water level and free-product data measured during sampling.

Figures 2-3 and 2-4 present the results for soil samples analyzed during the site assessment. Based on the results, it was concluded the majority of the soil contamination was located in the vadose zone surrounding the former tank area. However, contamination was also reported as deep as 45 feet bgs (SB03), where TPH-d was detected at 170 mg/kg. The highest TPH-d concentration detected in the soil, 2,400 mg/kg, was observed in SB03 at 30 feet bgs (Figure 2-3). Soil contamination was reported to extend from the former tank cavity to SB06, located approximately 42 feet away. Thirteen VOCs and four PAH compounds were also detected at maximum concentrations of 2,600 micrograms per kilogram (μg/kg) for 1,2,4-trimethylbenzene and 3,100 μg/kg for phenanthrene (Figure 2-4).

SPLP analyses were performed on two soil samples with relatively high TPH-d concentrations (SB01-GRAB-08' with 2,300 mg/kg TPH-d, and SB06-14' with 2,100 mg/kg TPH-d) and on one soil sample with the lowest measured TPH concentration above 100 mg/kg (SB07-50' with 110 mg/kg TPH-d). SPLP test results indicated that 10 VOCs were present in the leachate ranging from 0.59 micrograms per liter ( $\mu$ g/L) (o-xylene) to 5.1  $\mu$ g/L (1,3,5-trimethylbenzene) (Battelle, 1999). PAHs were not detected in any of the samples.

Figure 2-5 illustrates the location of monitoring wells MW01, MW01A, MW02, MW03, MW04, and MW05 in relation to the former UST and Building 1441. Groundwater samples collected during the site assessment indicated that TPH-d was present in each well at concentrations ranging from 3.8 to 13 milligrams per liter (mg/L). In addition, 17 VOCs were detected in the groundwater with concentrations ranging from 1.0 μg/L of bromodichloromethane to 120 μg/L of naphthalene. Included in the group of detected VOCs was benzene, which was detected in MW01, MW02, MW03, MW04, and MW05 at concentrations of 6.0, 22, 2.7, 0.75, and 5.6 μg/L, respectively. In addition, trichloroethene was detected in MW02 at 1.3 μg/L, and methyl tertbutyl ether (MTBE) was detected in MW02 at 0.57 μg/L and in MW04 at 1.5 μg/L. Naphthalene was the only PAH observed in the groundwater samples and was detected in MW01A and MW02 at 34 and 43 μg/L, respectively. Figure 2-5 illustrates the groundwater sample results in relation to the sampling locations.

#### 2.5 QUARTERLY GROUNDWATER SAMPLING

After collecting groundwater samples during the site assessment in 1998, four additional quarterly sampling events were completed between November 2000 and July 2001 (Battelle, 2001). The sampling events were completed in November 2000, January 2001, April 2001, and July 2001.

An oil-water interface probe was used to monitor the depth to groundwater and to check for the presence of free product in each well during each event. In MW05, free product was measured in November 2000 and January 2001 at 0.15 foot and 1.18 feet, respectively. All site wells were sampled each quarter, except for MW05 in November 2000 and January 2001, when free product was present.

Water-level data collected from monitoring wells MW02, MW03, and MW04 were used to determine groundwater flow direction and hydraulic gradient. Based on the water levels collected during the last sampling event (July 2001), groundwater flowed to the southwest with an average gradient of 0.2. This is consistent with groundwater flow directions calculated during the other events. Water levels measured during the four quarterly events are presented on Table 2-1.

During the four sampling events, groundwater samples were analyzed for TPH-d, TPH-jf, TPH-mo, and VOCs. Groundwater samples collected during the last (July 2001) sampling event indicated the presence of TPH-d in all wells. Concentrations of TPH-d ranged from 0.51 to 43 mg/L. The highest concentration of TPH-d was measured in well MW05. Benzene was measured in MW01, MW01A, MW02, and MW05 at concentrations of 3.6  $\mu$ g/L, 0.32  $\mu$ g/L, 0.78  $\mu$ g/L, and 2.7  $\mu$ g/L, respectively. Ethylbenzene was detected in MW01, MW01A, and MW02 at concentrations of 6.1  $\mu$ g/L, 8.7  $\mu$ g/L, and 3.7  $\mu$ g/L, respectively. Xylenes were measured in MW01, MW01A, and MW05 at concentrations of 0.70  $\mu$ g/L, 0.57  $\mu$ g/L, and 10.7  $\mu$ g/L, respectively. Naphthalene was measured in MW01, MW01A, MW02, and MW05 at

concentrations of 30  $\mu$ g/L, 62  $\mu$ g/L, 19  $\mu$ g/L, and 18  $\mu$ g/L, respectively. MTBE was detected in MW01 and MW01A at concentrations of 1.8  $\mu$ g/L and 0.50  $\mu$ g/L, respectively. No VOCs were detected in wells MW03 and MW04. All other VOCs detected at Site 1441 were either below their respective Maximum Contaminant Levels (MCLs), or no MCL exists for the compound. The analytical results for each of the four sampling events are summarized on Figure 2-6.

During each of the four quarterly sampling events, TPH-d was detected in all wells sampled at concentrations that exceeded the secondary taste and odor water quality threshold value of 0.1 mg/L. Additionally, benzene concentrations in MW01 and MW05 exceeded the MCL for benzene (1  $\mu$ g/L) during each event. However, MW05 was not sampled during the November 2000 and January 2001 event due to the presence of free product. All other petroleum hydrocarbon compounds detected at Site 1441 were either below their respective MCLs or no MCL exists for the compound.

#### 2.6 ADDITIONAL GROUNDWATER SAMPLING

In June 2003, an additional groundwater sampling event was conducted at Site 1441 to determine if Comprehensive Environmental Response, Compensation, and Liability Act constituents were present in groundwater [FWENC, 2003].

Using low-flow groundwater sampling techniques, all six wells at the site were sampled for TPH-d, TPH-jf, TPH-mo, VOCs, and total lead. Groundwater elevation data collected in June 2003 (Table 2-1) indicated that groundwater flowed to the southwest with a gradient of approximately 0.3 feet per foot (Figure 2-7). Free product was not observed in any well.

As summarized on Table 2-2, analytical results indicated that TPH-d and TPH-jf were present in all six wells at concentrations between 0.90 mg/L and 15 mg/L. Trichloroethene was detected in MW01 at an estimated value of 0.54  $\mu$ g/L. Benzene, the only VOC present above its MCL (1.0  $\mu$ g/L), was present in MW01 and MW05 at 2.1  $\mu$ g/L and 1.2  $\mu$ g/L, respectively. A variety of other VOCs was reported, but at low to estimated values (Table 2-2). Lead was only detected at estimated values in wells MW01A and MW02.

#### 3.0 INTERIM REMEDIAL ACTION

This section summarizes the tasks performed to excavate diesel-impacted soils at UST Site 1441.

#### 3.1 WORK PLAN

Prior to the start of field activities, a Work Plan was prepared and submitted to NAVFAC SW, MCB Camp Pendleton, and the Water Board for review (SES-TECH, 2005).

#### 3.2 UTILITY SURVEY

Prior to excavation, ULS Corporation conducted a geophysical survey at the site to identify underground utilities. An underground drain line and natural gas lines were identified. Representatives from the Base facilities department visited the site and confirmed these results.

#### 3.3 GROUNDWATER MONITORING WELL ABANDONMENT

Three monitoring wells located in the area of excavation were abandoned on January 27, 2006, under DEH permit No. LMON 103667 (issued January 6, 2006). The wells (MW01, MW01A and MW02) were abandoned by Test America by overdrilling with an 8-inch-diameter auger; however, due to difficult drilling encountered at approximately 10 feet bgs, a 6-inch-diameter auger was used to overdrill each well to approximately 38, 15, and 30 feet bgs, respectively. The borings were tremie-backfilled with bentonite grout and bentonite chips to the ground surface. Copies of the well abandonment permit and permit closeout documentation are included as Appendix A.

#### 3.4 SOIL EXCAVATION AND BACKFILLING

On January 30 and 31, 2006, TPH-d-impacted soil was excavated from the former tank cavity area. The horizontal dimensions of the excavation were 20 feet on the north and south sides, by 19 feet on the west side, and 25 feet on the eastside. The excavation depth was limited by very competent bedrock located at 10 feet bgs (Figure 3-1). A total of approximately 162 cubic yards of soil was excavated. The horizontal extent of the excavation was limited to the north and to the east by Building 1441 and to the south by shallow (4 feet bgs) competent bedrock (Figure 3-1 and Figure 3-2). The competent bedrock could not be excavated even after repeated attempts with the excavator. Due to the constraints on the excavation, some impacted soil was left in place. Stained soil was present along approximately 2/3 of the bottom, between approximately 7 and 10 feet bgs on the north and east sidewalls, and between 7.5 to 10 feet bgs on the south sidewall (Figure 3-2). No staining was observed on the west sidewall.

The remaining impacted area is estimated to extend within 5 feet of the north and east sidewalls, and within 10 feet of the south sidewall (approximated due to site investigation soil sample

results), and, due to the very competent nature of the bedrock along the bottom, is conservatively expected to extend approximately 2 feet beyond the bottom of the excavation. Based on these estimated dimensions, approximately 65 cubic yards of diesel-impacted soil remains at the site.

Soil removed from the excavation was temporarily stockpiled in accordance with Water Board 95-96 Guidelines (Water Board, 1995) prior to being transported off site for disposal. A copy of the stockpile waiver certificate is included in Appendix B.

The excavation was open for approximately 2 hours before backfilling began and groundwater did not enter the excavation. Backfilling the excavation was completed on January 31 and February 1, 2006, with fill material from the MCB Camp Pendleton borrow pit (Three Mile Pit). The backfill material was sampled and analyzed for TPH-d (US Environmental Protection Agency (EPA) Method 8015M), pH (EPA Method 9045), Title 22 Metals (EPA Method 6010B), and asbestos (California Air Resources Board Method 435). Analytical results from the backfill material were within acceptance limits specified in the project Work Plan [SES-TECH, 2005] for all parameters except thallium (Table 3-1). Thallium was detected at 7.23 mg/kg, which is slightly above the residential Preliminary Remediation Goal (PRG) of 5.2 mg/kg (EPA, 2004). Arsenic was also reported in the fill material above its residential PRG; however, the level was below the average background level for arsenic in surface soils at MCB Camp Pendleton [Southwest Division Naval Facilities Engineering Command, 1997]. Analytical laboratory reports from the fill material are included in Appendix C. The fill material was placed in 1-foot lifts using a front-end loader, with the goal of a minimal 90 percent compaction. Ninyo and Moore performed compaction tests on each 1-foot lift from 5 feet bgs to surface to ensure that the required compaction level had been achieved. All results were between 93 and 99 percent compaction. The compaction report is included as Appendix D.

#### 3.5 CONFIRMATION SOIL SAMPLING AND ANALYSIS

Ten soil confirmation samples were collected from the bottom and sidewalls of the excavation: two samples from the east sidewall, two samples from the south sidewall, one sample from the west sidewall, two samples from the north sidewall, and three samples from the excavation bottom. A duplicate sample was collected from the west sidewall. The samples were collected from the excavator bucket using disposable sampling equipment at depths ranging from 5.5 to 10 feet bgs. The samples were placed into pre-cleaned 8-ounce glass jars, labeled, placed on ice, and transported to the laboratory via courier for analysis. All the confirmation samples were analyzed for TPH-d (EPA Method 8015B). The three samples with the highest TPH-d results were also analyzed for SPLP/TPH-d, SPLP/VOCs, and SPLP/PAHs. One sample from the bottom was also analyzed for the presence of total heterotrophic hydrocarbon degraders and total diesel oxidizing degraders. Sample locations and analytical results are shown on Figure 3-2 and are summarized in Table 3-1. Laboratory analytical reports and chain-of-custody forms are included in Appendix C.

TPH-d was not detected in the confirmation samples collected from the west sidewall and from the northwest section of the bottom of the excavation (Table 3-2). The highest level of TPH-d was detected along the east sidewall at 3,500 mg/kg. The north sidewall contained 1,800 mg/kg TPH-d, and the south sidewall contained 290 mg/kg TPH-d. The bottom contained up to 1,300 mg/kg TPH-d. As indicated earlier, the excavation could not be extended to the north and the east because of Building 1441, and the excavation could not be extended any deeper or to the south due to the presence of competent bedrock.

The three samples with the highest detected concentrations of TPH-d (one sample from the excavation bottom and one sample each from the north and east sidewalls) were further analyzed for SPLP/TPH-d, SPLP/VOCs and SPLP/PAHs (Table 3-2). SPLP/TPH-d was detected in the sample collected from the excavation bottom at a concentration of 1.0 mg/L, and was detected in both the east and north sidewalls at 1.2 mg/L (Table 3-2). Ethylbenzene was the only SPLP/VOC detected [1.2  $\mu$ g/L] in the sample collected from the east sidewall (Table 3-2). SPLP/PAHs analysis detected concentrations of acenaphthene, acenaphthylene, fluorene, and phenanthrene in all three samples with maximum concentrations of 1.3  $\mu$ g/L, 0.35  $\mu$ g/L, 3.7  $\mu$ g/L, and 0.23  $\mu$ g/L, respectively. Additionally, naphthalene was detected in the samples collected from the east sidewall and the excavation bottom at a maximum concentration of 2.5  $\mu$ g/L (Table 3-2).

One of the bottom samples was additionally submitted for analyses for the presence of total aerobic heterotrophic bacteria and total diesel oxidizing bacteria (Table 3-2). Results indicated that  $4.45E^{+04}$  total aerobic heterotrophic bacteria, and  $1.41E^{+04}$  total diesel oxidizing bacteria are naturally present in soil. These bacteria are capable of degrading the hydrocarbon contamination at the site and are present at levels above that considered optimal  $(1.0E^{+3})$  (EPA, 1995).

#### 3.5.1 Quality Assurance and Quality Control

All confirmation samples were collected and preserved in accordance with the *San Diego County Site Assessment and Mitigation Manual 2005* (DEH, 2005). Samples were transported to the analytical laboratory by courier and were analyzed within the method-specific analytical holding times. EMAX Laboratories, a California state-certified and Naval Facilities Engineering Service Center-evaluated laboratory, performed sample analyses.

To assess sampling variability, a field duplicate sample was collected from the west sidewall (identified as 0003-376) and analyzed for TPH-d. TPH-d was not detected in either sample.

In accordance with the method and project specifications (SES-TECH, 2005), method blanks, surrogate spikes, and laboratory control samples (LCSs) and LCS duplicates were analyzed to assess method accuracy and precision. There were no detections of target constituents in the method blanks at levels greater than half of the project reporting limits (RLs) during this event. Percent recoveries in LCSs and surrogates, as well as relative percent differences between LCS/LCSD samples, were within the project-specific quality control acceptance limits.

#### 3.6 WASTE TRANSPORTATION AND DISPOSAL

On February 13, 2006, the excavated TPH-d-impacted soil was transported by General Environmental Management to Candelaria Environmental in Anza, California, as non-hazardous waste for disposal. The soil profile was established using analytical data from previous site investigations and copies of the Non-Hazardous Materials Hauling Manifests are included as Appendix E.

#### 3.7 MONITORING WELL CONSTRUCTION

The Work Plan (SES-TECH, 2005) proposed the installation of four new groundwater monitoring wells after the soil excavation activities were complete to replace the three wells that were destroyed (see Section 3.3). The new wells will be installed before the next groundwater sampling event is completed, and the well installation details will be included in the next groundwater sampling report. It is anticipated that the next groundwater sampling event will be completed in June 2006.

#### 4.0 SUMMARY

Below is a summary of results from the interim remedial action completed at Site 1441:

- Approximately 162 cubic yards of diesel-impacted soil were successfully excavated from the former UST tank area.
- TPH-d was not detected in the confirmation soil samples collected from the west sidewall and from the northwest section of the bottom of the excavation (Table 3-2). The highest level of TPH-d was detected along the east sidewall at 3,500 mg/kg, and the north sidewall contained 1,800 mg/kg TPH-d. The excavation could not be extended further to the north or to the east because of Building 1441 (Figure 3-2). The south sidewall contained 290 mg/kg TPH-d, and the excavation bottom contained up to 1,300 mg/kg TPH-d. The excavation also could not be extended to the south and any deeper due to the presence of very competent bedrock. The competent bedrock could not be removed even after repeated attempts with the excavator.
- Assuming the remaining impacted soils extend 5 feet from both the north and east sidewalls, and 10 feet from the south sidewall (approximated due to site investigation soil sample results), and, due to the very competent nature of the bedrock along the bottom, which is assumed to extend approximately 2 feet beyond the bottom of the excavation, approximately 65 cubic yards of diesel-impacted soil remains at the site.
- The three confirmation soil samples with the highest TPH-d results were further analyzed for SPLP/TPH-d, SPLP/VOCs, and SPLP/PAHs. SPLP/TPH-d was detected between 1.0 and 1.2 mg/L (Table 3-1). The only SPLP/VOC detected was ethylbenzene at 1.2 µg/L in one sample. Several SPLP/PAHs were detected, including acenaphthene, acenaphthylene fluorene, phenanthrene, and naphthalene up to 1.3 µg/L, 0.35 µg/L, 3.7 µg/L, 2.3 µg/L, and 2.5 µg/L, respectively.
- One confirmation soil sample was additionally submitted for microbial analysis and results indicated that  $4.45E^{+4}$  total aerobic heterotrophic bacteria and  $1.41E^{+4}$  total diesel oxidizing bacteria are naturally present in soil. These bacteria, capable of degrading the hydrocarbon contamination at the site, are present at levels above that considered optimal  $(1.0E^{+3})$  (EPA, 1995).

The Work Plan for Site 1441 (SES-TECH, 2005) proposed the installation of four new groundwater monitoring wells after the soil excavation was complete to replace the three wells that were destroyed (see Section 3.3). The new wells will be installed before the next groundwater sampling event begins, and the well installation details will be included in the next groundwater sampling report. It is anticipated that the next groundwater sampling event will be completed in June 2006.

#### 5.0 REFERENCES

- Battelle Memorial Institute (Battelle), 1999. Final Site Assessment Report for Former Underground Storage Tank Site 1441 at Marine Corps Base Camp Pendleton, Oceanside, California. July.
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- SES-TECH. 2005. Final Interim Remedial Action Work Plan for UST Site 1441, Revision 1. Marine Corps Base Camp Pendleton, California. September.
- United States Environmental Protection Agency (EPA). 1995. How to Evaluate Alternative Cleanup Technologies for Underground Storage Tank Sites: A Guide for Corrective Action Plan Reviewers.

| 2004. Preliminary Remediation Goals. Octobe |
|---|
|---|

#### **TABLES**

TABLE 2-1
HISTORICAL GROUNDWATER AND FREE PRODUCT LEVEL MEASUREMENTS,
UST SITE 1441, MCB CAMP PENDLETON

| Number<br>Well         | Date<br>Measured | Top of<br>Casing<br>Elevation<br>(ft amsl) | Screen<br>Interval<br>(ft btoc) | Water<br>Level<br>(ft btoc) | Water<br>Elevation<br>(ft amsl) <sup>a</sup> | Product<br>Level<br>(ft btoc) | Product<br>Elevation<br>(ft amsl) | Free<br>Product |
|------------------------|------------------|--|---------------------------------|-----------------------------|--|-------------------------------|-----------------------------------|-----------------|
|                        | 10/27/98         |  |                                 | 19.14                       | 298.55                                       | 19.14                         | 298.55                            | Sheen           |
|                        | 11/06/00         |  |                                 | 18.73                       | 298.96<br>(298.97)                           | 18.72                         | 298.97                            | 0.1             |
| MW01                   | 01/11/01         | 317.69                                     | 18-38.0                         | 17.60                       | 300.09<br>(300.10)                           | 17.59                         | 300.10                            | 0.1             |
|                        | 04/04/01         |  |                                 | 10.60                       | 307.09                                       |                               |                                   |                 |
|                        | 07/16/01         |  |                                 | 11.17                       | 306.52                                       |                               |                                   |                 |
|                        | 06/23/03         |  |                                 | 13.75                       | 303.94                                       |                               |                                   |                 |
|                        | 10/27/98         |  |                                 | 7.22                        | 310.30                                       |                               |                                   |                 |
|                        | 11/06/00         |  |                                 | 7.42                        | 310.10                                       |                               |                                   |                 |
| MW01A                  | 01/11/01         | 317.52                                     | 5-15.0                          | <mark>2.26</mark>           | 315.26                                       |                               |                                   |                 |
| WWUIA                  | 04/04/01         | 317.32                                     | 5-15.0                          | 3.07                        | 314.45                                       |                               |                                   |                 |
|                        | 07/16/01         |  |                                 | 5.06                        | 312.46                                       |                               |                                   |                 |
|                        | 06/23/03         |  |                                 | 5.67                        | 311.85                                       |                               |                                   |                 |
|                        | 10/27/98         |  |                                 | 12.41                       | 304.62                                       |                               |                                   |                 |
|                        | 11/06/00         |  |                                 | 15.96                       | 301.07                                       | 15.96                         | 301.07                            | Sheen           |
| MW02                   | 01/11/01         | 317.03                                     | 10-30.0                         | 16.07                       | 300.96                                       | 16.07                         | 300.96                            | Sheen           |
| WI W 02                | 04/04/01         | 317.03                                     | 10-50.0                         | <mark>8.04</mark>           | 308.99                                       |                               |                                   |                 |
|                        | 07/16/01         |  |                                 | 8.23                        | 308.80                                       |                               |                                   |                 |
|                        | 06/23/03         |  |                                 | 9.8 <mark>5</mark>          | 307.18                                       |                               |                                   |                 |
|                        | 10/27/98         |  |                                 | 14.04                       | 304.24                                       |                               |                                   |                 |
|                        | 11/06/00         |  |                                 | <mark>8.72</mark>           | 309.56                                       |                               |                                   |                 |
| MW03                   | 01/11/01         | 318.28                                     | 10-30.0                         | 8.28                        | 310.00                                       |                               |                                   |                 |
| WIWOS                  | 04/04/01         | 310.20                                     | 10-50.0                         | <mark>6.97</mark>           | 311.31                                       |                               |                                   |                 |
|                        | 07/16/01         |  |                                 | <b>5.37</b>                 | 312.91                                       |                               |                                   |                 |
|                        | 06/23/03         |  |                                 | 8.55                        | 309.73                                       |                               |                                   |                 |
|                        | 10/27/98         |  |                                 | 16.21                       | 300.95                                       |                               |                                   |                 |
|                        | 11/06/00         |  |                                 | 21.76                       | 295.40                                       |                               |                                   |                 |
| MW04                   | 01/11/01         | 317.16                                     | 9-29.0                          | 19.78                       | 297.38                                       |                               |                                   |                 |
| 141 44 O <del>.4</del> | 04/04/01         | 317.10                                     | 9-47.U                          | 10.78                       | 306.38                                       |                               |                                   |                 |
|                        | 07/16/01         |  |                                 | <b>8.87</b>                 | 309.29                                       |                               |                                   |                 |
|                        | 06/23/03         |  |                                 | 17.48                       | 299.68                                       |                               |                                   |                 |

**TABLE 2-1** 

## HISTORICAL GROUNDWATER AND FREE PRODUCT LEVEL MEASUREMENTS, UST SITE 1441, MCB CAMP PENDLETON

| Number<br>Well | Date<br>Measured | Top of<br>Casing<br>Elevation<br>(ft amsl) | Screen<br>Interval<br>(ft btoc) | Water<br>Level<br>(ft btoc) | Water<br>Elevation<br>(ft amsl) <sup>a</sup> | Product<br>Level<br>(ft btoc) | Product<br>Elevation<br>(ft amsl) | Free<br>Product |
|----------------|------------------|--|---------------------------------|-----------------------------|--|-------------------------------|-----------------------------------|-----------------|
|                | 10/27/98         |  | 9 10-30.0                       | 16.00                       | 300.99                                       |                               |                                   |                 |
|                | 11/06/00         | 316.99                                     |                                 | 20.26                       | 296.73<br>(296.86)                           | 20.11                         | 296.88                            | 0.15            |
| MW05           | 01/11/01         |  |                                 | 21.17                       | 295.82<br>(296.81)                           | 19.99                         | 297.00                            | 1.18            |
| WWOS           | 04/04/01         | 310.99                                     |                                 | <mark>7.85</mark>           | 309.135<br>(309.14)                          | 7.85                          | 309.14                            | Sheen           |
|                | 07/16/01         |  |                                 | 11.54                       | 305.45<br>(305.14)                           | 11.515                        | 305.475                           | 0.025           |
|                | 06/23/03         |  |                                 | 11.41                       | 305.38                                       |                               |                                   |                 |

#### Notes:

#### Shading indicates water level was above the top of the screen.

amsl – above mean sea level

btoc - below top of casing

ft-feet

g/cm<sup>3</sup> – grams per cubic centimeter

MCB - Marine Corps Base

UST - Underground Storage Tank

<sup>(</sup>a) Value in parentheses indicates groundwater elevation corrected for the presence of free product using a density factor for diesel fuel of 0.84 g/cm<sup>3</sup>.

TABLE 2-2
SUMMARY OF JUNE 2003 GROUNDWATER SAMPLE RESULTS FOR UST SITE 1441, MCB CAMP PENDLETON

|                                 |                 |           |                    |               |                |                    |                   |               |                 |        | Ţ                    | /OCs <sup>(1)</sup> |                     |         |                      |                       |                                     |                                   |                         |                  |
|---------------------------------|-----------------|-----------|--------------------|---------------|----------------|--------------------|-------------------|---------------|-----------------|--------|----------------------|---------------------|---------------------|---------|----------------------|-----------------------|-------------------------------------|-----------------------------------|-------------------------|------------------|
| Well ID                         | Date<br>Sampled | Sample ID | p-H4T /L           | mg/<br>TPH-jf | mg TPH-mo<br>∏ | க் Trichloroethene | ਜ<br>ந<br>Benzene | ர்<br>Toluene | ਜੋ Ethylbenzene | न<br>T | تار Xylenes<br>تاریخ | க் N-Propylbenzene  | க் Sec-Butylbenzene | ன்<br>T | ்<br>Spropyl Benzene | ਜੂ 4-Isopropyltoluene | ក្នុ<br>ក្នុ 1,2,4-Trimethylbenzene | ਜੂ<br>ਸ੍ਰੀ 1,3,5-Trimethylbenzene | ந்<br>Tert-Butylbenzene | ga<br>Total Lead |
| Water Quality Objectives (MCLs) |                 | MCLs)     | 0.1 <sup>(2)</sup> | (3)           | (3)            | 5.0                | 1.0               | 150           | 680             | (3)    | 1750                 | (3)                 | (3)                 | (3)     | (3)                  | (3)                   | (3)                                 | (3)                               | (3)                     | 15               |
| MW01                            | 06/24/03        | 0026-521  | 12                 | 5.6           | 0.92           | 0.54J              | 2.1               | 0.27J         | 4.4             |        | 0.53                 | 1.8                 | 0.99J               | 1.1     | 1.5                  | 0.26J                 |                                     |                                   |                         |                  |
| MW01A                           | 06/24/03        | 0026-520  | 8.5                | 3.6           | 1.2            |                    |                   |               | 1.8             | 1.9J   | 0.22J                | 0.56J               |                     | 0.43J   | 0.54J                |                       |                                     |                                   |                         | 0.0027J          |
| MW02                            | 06/24/03        | 0026-519  | 6.8                | 3.2           |                |                    | 0.2J              |               | 0.25J           |        |                      | 0.83J               | 0.47J               |         | 0.74J                | 0.42J                 |                                     |                                   |                         | 0.003J           |
| MW03                            | 06/24/03        | 0026-518  | 2.1                | 0.90          |                |                    |                   |               |                 |        |                      | 0.28J               | 0.47J               | 0.63J   | 0.26J                |                       |                                     |                                   |                         |                  |
| MW04                            | 06/24/03        | 0026-516  | 1.7                | 0.91          |                |                    | 0.23J             |               |                 |        |                      |                     | 0.66J               | 0.62J   | 0.37J                |                       |                                     |                                   |                         |                  |
| MW04 dup                        | 06/24/03        | 0026-517  | 2.0                | 1.1           |                |                    | 0.24J             |               |                 | 1      |                      |                     | 0.72J               | 0.64J   | 0.42J                |                       |                                     |                                   |                         |                  |
| MW05                            | 06/24/03        | 0026-522  | 15                 | 12            | 1.0            |                    | 1.2               |               | 1.1             | 5.4    | 7.0                  | 1.9                 | 1.0                 | 1.3     | 1.9                  | 2.0                   | 16                                  | 4.7                               | 0.21J                   |                  |
| Reporting Limits                |                 |           | 0.05               | 0.1           | 0.5            | 1.0                | 0.5               | 0.5           | 0.5             | 2.0    | 0.5                  | 1.0                 | 1.0                 | 1.0     | 1.0                  | 1.0                   | 1.0                                 | 1.0                               | 1.0                     | 0.005            |

Notes:

#### Bolded and shaded values above MCLs

(1) Only includes compounds detected above laboratory detection limits

(2) Secondary taste and odor threshold for diesel

(3) No established water quality objective

-- - not detected above laboratory reporting limits

μg/L - micrograms per liter

dup - duplicate

J - estimated value, result less than the reporting limit but more than the method detection limit

MCB - Marine Corps Base

MCL - Maximum Contaminant Level

mg/L - milligrams per liter

TPH-d - total petroleum hydrocarbons quantified as diesel

TPH-jf - total petroleum hydrocarbons quantified as jet fuel

TPH-mo - total petroleum hydrocarbons quantified as motor oil

UST - Underground Storage Tank

VOC - volatile organic compound

#### **TABLE 3-1**

### SUMMARY OF FILL SOIL SAMPLE RESULTS, UST SITE 1441, MCB CAMP PENDLETON, CA

|                   | Doto      | Date TPH-d Antimony Arsenic Barium Beryllium Cadmium Chromium Cobalt Copper Lead Molybdenum Mercury Nick | Title 22 Metals |          |        |          |          |       |          |       |       |        |       |       | Asbestos | pН      |       |       |        |         |      |
|-------------------|-----------|--|-----------------|----------|--------|----------|----------|-------|----------|-------|-------|--------|-------|-------|----------|---------|-------|-------|--------|---------|------|
| Sample ID         | Sampled   |  | Nickel          | Selenium | Silver | Thallium | Vanadium | Zinc  | ASDESIOS | pii   |       |        |       |       |          |         |       |       |        |         |      |
|                   | Sampicu   | mg/kg  | mg/kg           | mg/kg    | mg/kg  | mg/kg    | mg/kg    | mg/kg | mg/kg    | mg/kg | mg/kg | mg/kg  | mg/kg | mg/kg | mg/kg    | mg/kg   | mg/kg | mg/kg | mg/kg  | percent | N/A  |
| 0004-070          | 1/12/2006 | -  |                 |          |        |          |          |       |          |       |       |        |       |       |          |         |       |       |        | ND      |      |
| 0004-071          | 1/12/2006 |  |                 |          |        |          |          |       |          |       |       |        |       |       |          |         |       |       |        | ND      |      |
| 0004-072          | 1/17/2006 | ND   | ND              | 2.07     | 92.2   | 0.402 J  | 0.225 J  | 23.5  | 5.78     | 17.7  | 7.39  | 1.15 J | ND    | 16.1  | 0.784 J  | 0.624 J | 7.23  | 33.1  | 49.2   |         | 8.11 |
| EPA Residential I | PRGs      | N/A  | 31              | 0.0062   | 5400   | 150      | 37       | 30    | 900      | 3,100 | 150   | 390    | 23    | 160   | 390      | 390     | 5.2   | 78    | 23,000 |         |      |

Notes:

-- - not analyzed

N/A - not applicable

EPA - U.S. Environmental Protection Agency

J - estimated value; value falls between the method detection limit and the project reporting limit

MCB - Marine Corps Base

mg/kg - milligrams per kilogram

ND - not detected above laboratory reporting limits

PRG - Preliminary Remediation Goal

TPH-d - total petroleum hydrocarbons quantified as diesel

UST - Underground Storage Tank

**TABLE 3-2** 

## SUMMARY OF SOIL EXCAVATION CONFIRMATION SAMPLE RESULTS, UST SITE 1441, MCB CAMP PENDLETON, CA

|           | Date      |                          | Depth  | TPH-d  |            |         |         | Detected SPLP/ | VOCs         |               | Detected SPLP/PAHs  | Total Aerobic          | Total Diesel       |
|-----------|-----------|--------------------------|--------|--------|------------|---------|---------|----------------|--------------|---------------|---|------------------------|--------------------|
| Sample ID | Sampled   | Location                 | Deptii | 1111-u | SPLP/TPH-d | Acetone | Benzene | Toluene        | Ethylbenzene | Total Xylenes | Detected SI LI /I Alls  | Heterotrophic Bacteria | Oxidizing Bacteria |
|           | Sumpleu   |                          | feet   | mg/kg  | mg/L       | μg/L    | μg/L    | μg/L           | μg/L         | μg/L          | μg/L  | cfu/g                  | cfu/g              |
| 0003-069  | 1/31/2006 | East Sidewall (deep)     | 7      | 3,500  | 1.2        | ND      | ND      | ND             | 1.2          | ND            | Acenaphthene 1.3<br>Acenaphthylene 0.26 J<br>Flourene 3.7<br>Naphthalene 2.5<br>Phenanthrene 1.8    |                        | -                  |
| 0003-070  | 1/31/2006 | East Sidewall (shallow)  | 5.5    | 28     |            |         |         |                |              |               |   |                        |                    |
| 0003-071  | 1/31/2006 | South Sidewall (shallow) | 6      | 12     |            |         |         |                |              |               |   |                        |                    |
| 0003-072  | 1/31/2006 | South Sidewall (deep)    | 8      | 290    |            | -       |         |                |              |               |   |                        |                    |
| 0003-073  | 1/31/2006 | North Sidewall (shallow) | 5.5    | ND     |            |         |         |                |              |               |   |                        |                    |
| 0003-074  | 1/31/2006 | North Sidewall (deep)    | 8      | 1,800  | 1.2        | ND      | ND      | ND             | ND           | ND            | Acenaphthene 1.3<br>Acenaphthylene 0.35 J<br>Flourene 2.5<br>Phenanthrene 0.23 J                    |                        |                    |
| 0003-075  | 1/31/2006 | West Sidewall            | 6      | ND     |            |         |         |                |              |               |   |                        |                    |
| 0003-076  | 1/31/2006 | West Sidewall (dup)      | 6      | ND     |            |         |         |                |              |               |   |                        |                    |
| 0003-077  | 1/31/2006 | Bottom (northeast)       | 10     | 1,300  | 1          | ND      | ND      | ND             | ND           | ND            | Acenaphthene 0.96 J<br>Acenaphthylene 0.31 J<br>Flourene 3.3<br>Naphthalene 1.3<br>Phenanthrene 2.3 | 4.45E+04               | 1.41E+04           |
| 0003-078  | 1/31/2006 | Bottom (northwest)       | 10     | ND     |            |         |         |                |              |               |   |                        |                    |
| 0003-079  | 1/31/2006 | Bottom (southwest)       | 10     | 340    |            |         |         |                |              |               |   |                        |                    |

#### Notes:

--- not analyzed

 $\mu g/L$  - micrograms per liter

cfu/g - colony forming units per gram

dup - field duplicate sample  $J - {\rm estimated\ value\ between\ the\ method\ detection\ limit\ and\ project\ reporting\ limit}$ 

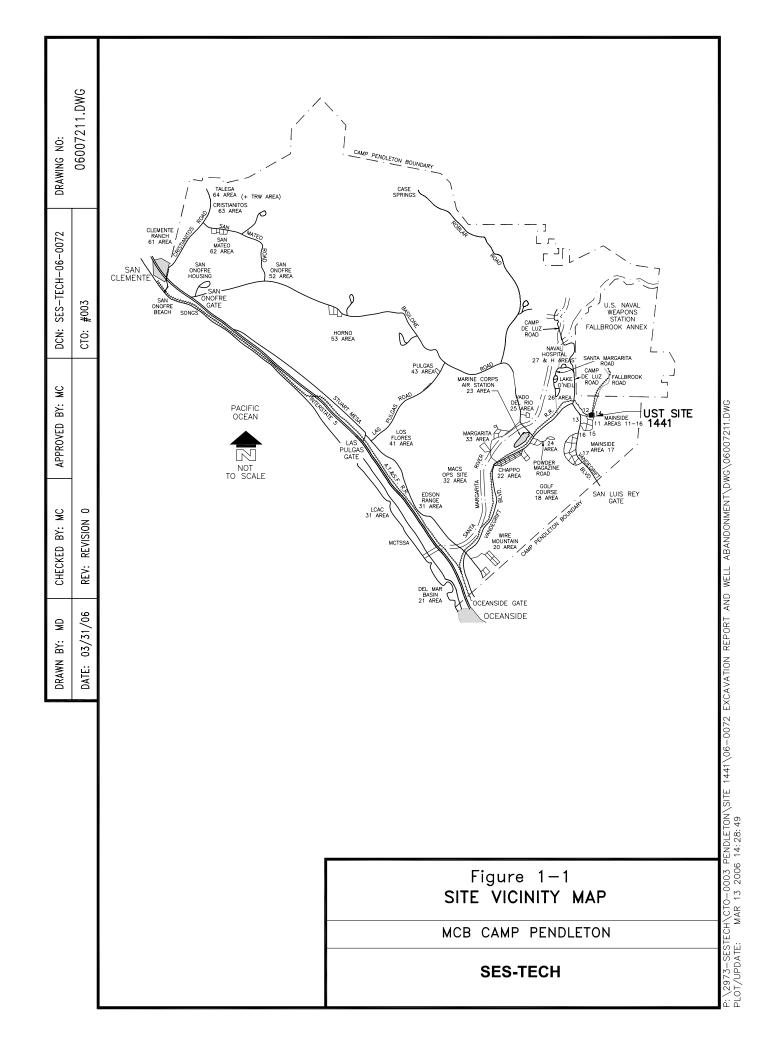
MCB - Marine Corps Base mg/kg - milligrams per kilogram mg/L - milligrams per liter ND - not detected above laboratory reporting limits

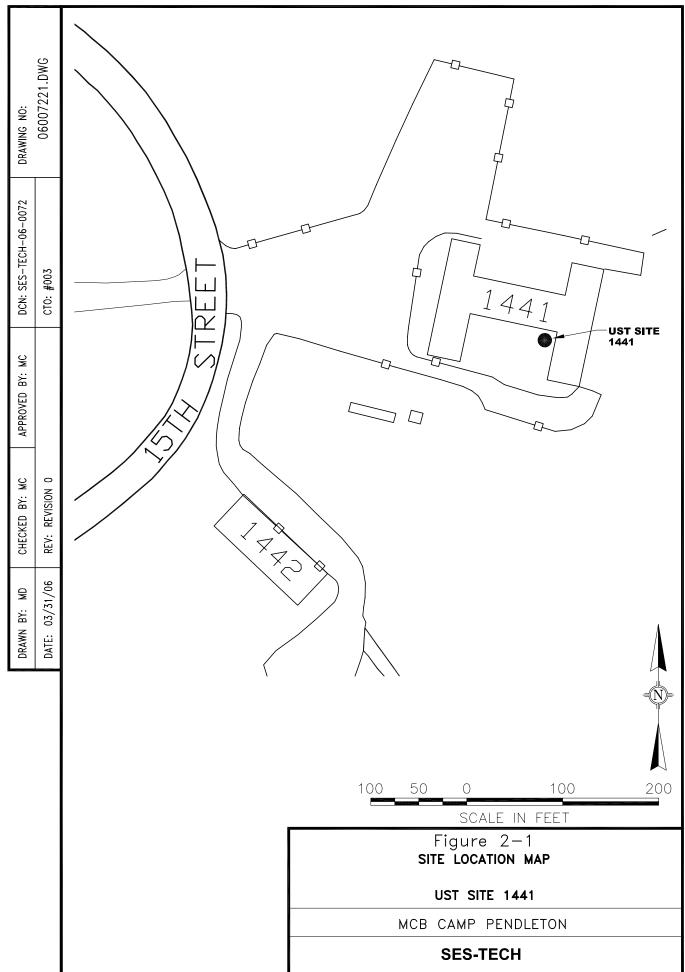
PAH - polynuclear aromatic hydrocarbon

SPLP - Synthetic Precipitation Leachate Procedure

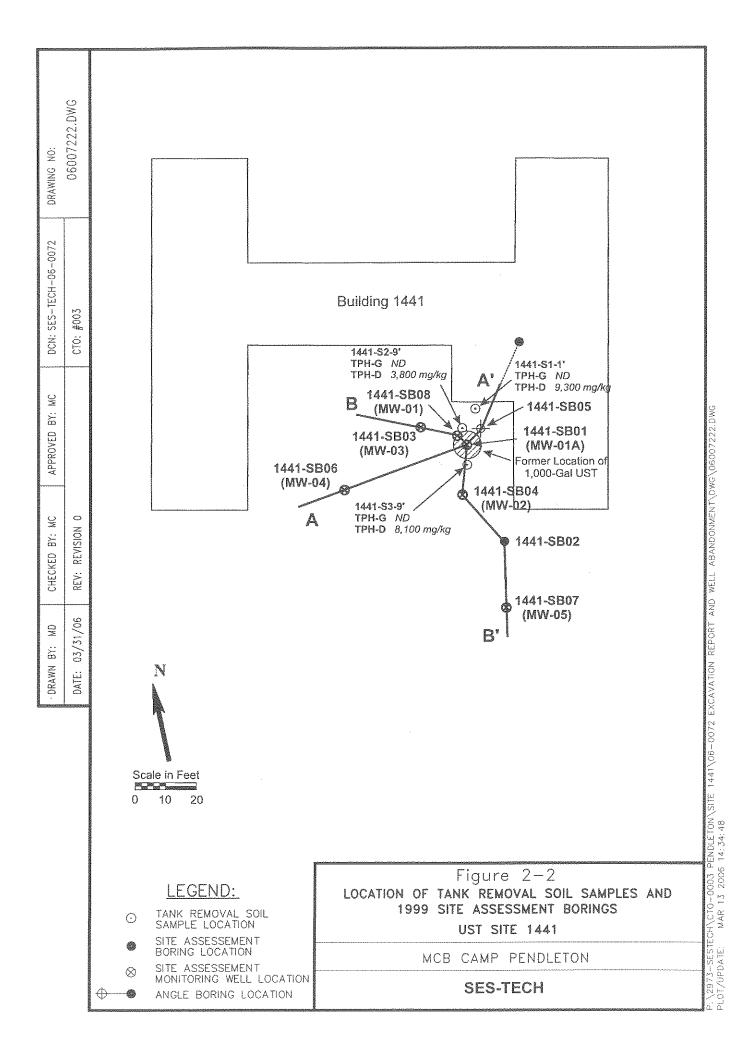
TPH-d - total petroleum hydrocarbons quantified as diesel

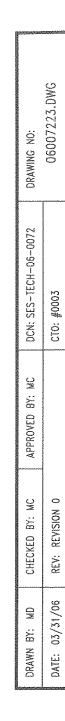
UST - Underground Storage Tank VOC - volatile organic compound **FIGURES** 





P:\2973-SESTECH\CTO-0003 PENDLETON\SITE 1441\06-0072 EXCAVATION REPORT AND WELL ABANDONMENT\DWG\06007221.DWG PLOT/UPDATE: MAR 13 2006 14:31:31







200

|                 | ~       | -       | 2************************************* |         |         |
|-----------------|---------|---------|--|---------|---------|
| Sample ID/Depth | TPH-JF  | TPH-D   | TPH-0                                  | VOCs    | PNAS    |
|                 | (mg/kg) | (mg/kg) | (mg/kg)                                | (µg/kg) | (µg/kg) |
| 1441-SB03-5'    | <10     | <10     | <10                                    | NA.     | NA      |
| 1441-SB03-15'   | < 10    | 64      | 41                                     | N A     | NA      |
| 1441-SB03-22'   | <10     | 120     | . 29                                   | N A     | NA      |
| 1441-SB03-27'   | <10     | 110     | 50                                     | NΑ      | NA      |
| 1441-SB03-30°   | < 10    | 2,400   | 160                                    | *       | *       |
| 1441-SB03-35'   | <10     | 430     | 28                                     | *       | <330    |
| 1441-SB03-40'   | <10     | 280     | 23                                     | NΑ      | ΝA      |
| 1441-SB03-44'   | <10     | 380     | 25                                     | ΝA      | ΝA      |
| 1441-SB03-45'   | <10     | 170     | 21                                     | N A     | NA      |
| 1441-SB03-50'   | <10     | 98      | 8.5                                    | ND      | <330    |

Sample ID/Depth

1441-SB01-GRAB8'

1441-SB01-5

1441-5801-10

1441-SB01-15'

TPH-JF TPH-D TPH-O

630

2,300

1,300

480

(mg/kg) (mg/kg)

1441

52

320

210

87

(mg/kg)

< 10

<10

<10

<10

VOCs

(µg/kg)

ND

NΑ

PNAs

(μg/kg)

< 330

NA

<330 <330

| Canada XXX IXX and b | TPH-JF  | TPH-D   | TPH-O   | VOCs    | PNAs    |
|----------------------|---------|---------|---------|---------|---------|
| Sample ID/Depth      | (mg/kg) | (mg/kg) | (mg/kg) | (µg/kg) | (µg/kg) |
| 1441-SB 05-5'        | <10     | 1,500   | 7.3     | *       | *       |
| 1441-SB05-10'        | <10     | 1,000   | 59      | ×       | *       |
| 1441-SB 05-14'       | <10     | 370     | < 10    | N A     | NΑ      |
| 1441-SB 05-19'       | < 10    | 120     | <10     | N A     | ΝA      |
| 1441-SB05-24'        | <10     | 130     | 17      | NA      | NA      |
| 1441-SB 05-26'       | <10     | 51      | 16      | ND      | <330    |
| 1441-SB 05-30'       | <10     | 170     | 21      | N A     | <330    |
| 1441-SB05-35'        | <10     | 82      | 12      | N A     | NΑ      |
| 1441-SB05-40'        | <10     | 43      | ló      | NA      | ΝA      |
| 1441-SB05-45'        | <10     | 22      | 19      | NA      | N A     |
| 1441-SB05-50'        | <10     | 85      | 27      | NA      | N A     |
| 1441-SB05-55'        | <10     | 100     | 32      | NA      | ΝA      |
| 1441-SB 05-60'       | <10     | 43      | 29      | NΑ      | < 330   |

#### SCALE IN FEET

#### LEGEND

SOIL BORING LOCATION

**BUILDING NUMBER** 

ROADWAY

FORMER UST EXCAVATION/LOCATION

#### NOTES:

TPH-JF -TOTAL PETROLEUM HYDROCARBONS QUANTIFIED AS JET

TPH-D = TOTAL PETROLEUN QUANTIFIED AS DI

TPH-O = TOTAL PETROLEUN QUANTIFIED AS OII

VOC8 = VOLATILE ORGANI PNAS = POLYNUCLEAR ARG

**HYDROCARBONS** NA = NOT ANALYZED

ND =NOT DETECTED; RE

REPORTING LIMITS

SEE FIGURE 8 FOR DETECTIONS

| M HYDKOCARBONS      |
|---------------------|
| TFUEL               |
| M HYDROCARBONS      |
| ESEL.               |
| M HYDROCARBONS      |
| L                   |
| IC COMPOUNDS        |
| OMATIĊ              |
|                     |
|                     |
| EFER TO TABLE 2 FOR |
| <b>9</b><br>▶       |
| VOC AND PNA         |
|                     |
| 4                   |

| " 1441-SB02-5' <10 <10 NA N    | /Kg/ |
|--------------------------------|------|
| - [1441-3602-3                 | A    |
| 1441-SB02-6.5' <10 480 27 NA N | A    |

| Sample ID/Depth | TPH-JF  | TPH-D   | TPH-O   | V O C s | PNAs    |
|-----------------|---------|---------|---------|---------|---------|
|                 | (mg/kg) | (mg/kg) | (mg/kg) | (μg/kg) | (ug/kg) |
| 1441-SB07-5'    | <10     | <10     | < 10    | NA      | ΝA      |
| 1441-SB07-12'   | <10     | 480     | <10     | NA      | ΝA      |
| 1441-SB07-16'   | <10     | 1,300   | < 10    | ΝA      | ΝA      |
| 1441-SB07-21'   | < 10    | 220     | <10     | NΑ      | NA      |
| 1441-SB07-25'   | < 10    | 240     | <10.    | N A     | NA      |
| 1441-SB07-31'   | < 10    | 390     | <10     | NA      | NA      |
| 1441-SB07-35'   | < 10    | 180     | <10     | NA      | N A     |
| 1441-SB07-40'   | < 10    | 170     | <10     | NΑ      | NA      |
| 1441-SB07-45'   | < 10    | 72      | < 10    | NA      | NA      |
| 1441-SB07-50'   | <10     | 110     | < 10    | NΑ      | <330    |

| Sample ID/Depth | TPH-JF  | TPH-D   | TPH-O   | VO Cs   | PNAs    |
|-----------------|---------|---------|---------|---------|---------|
| samble intrebin | (mg/kg) | (mg/kg) | (mg/kg) | (μg/kg) | (μg/kg) |
| 1441-SB04-5'    | <10     | 940     | 71      | è       | < 330   |
| 1441-SB04-10'   | <10     | 280     | 14      | *       | < 330   |
| 1441-SB04-15'   | <10     | 5.5     | 24      | ΝA      | ΝA      |
| 1441-SB 04-20'  | < 10    | 36      | 18      | NΑ      | ΝA      |
| 1441-SB04-25'   | <10     | 77      | 21      | NA      | ΝA      |
| 1441-SB04-30'   | <10     | 40      | 16      | aft     | < 330   |
| 1441-SB04-35'   | <10     | 120     | 18      | NA      | ΝA      |
| 1441-SB04-40'   | <10     | 100     | 1.5     | N A     | ΝA      |
| 1441-SB04-45'   | <10     | 68      | 12      | N A     | N A     |
| 1441-SB04-47'   | <10     | 13      | <10     | NΑ      | NΑ      |
| 1441-SB 04-52'  | <10     | 27      | 18      | ND      | <330    |

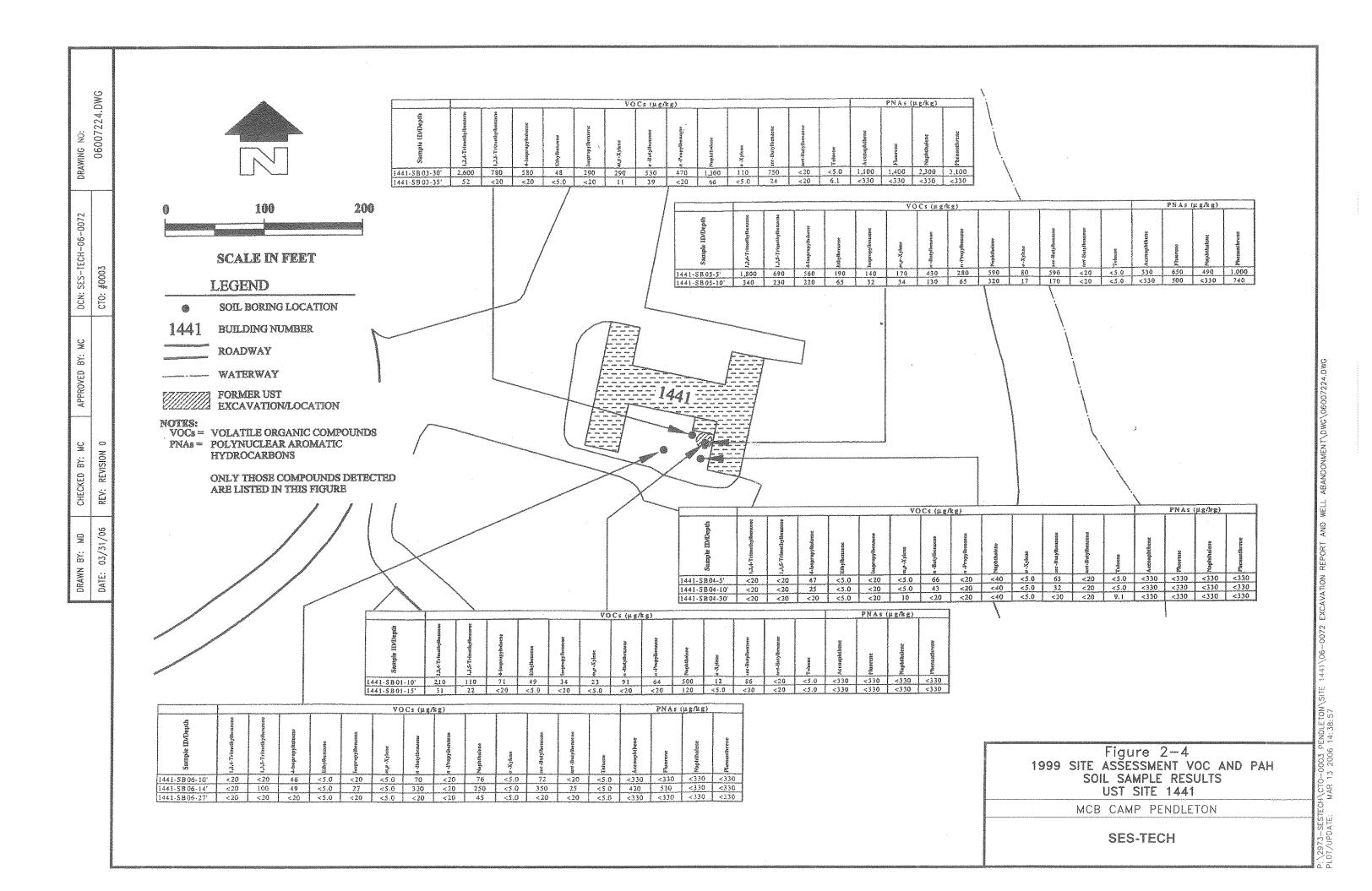
|                | and the same of th |         |         |         | 2       |         |
|----------------|--|---------|---------|---------|---------|---------|
| and the same   | Sample ID/Depth  | TPH-JF  | TPH-D   | TPH-O   | VOCs    | PNAs    |
| Marie Contract | Dampie 1D/Deptil   | (mg/kg) | (mg/kg) | (mg/kg) | (µg/kg) | (µg/kg) |
|                | 1441-SB06-5'   | <10     | <10     | <10     | NA      | NA      |
|                | 1441-SB06-10'  | < 10    | 1,000   | <10     | *       | < 330   |
| September 1    | 1441-SB06-14'  | <10     | 2,100   | < 10    | *       | *       |
|                | 1441-SB06-20'  | < 10    | 130     | < 10    | NA      | NA      |
|                | 1441-SB06-25'  | < 10    | 72      | < 10    | 'NA     | NA      |
|                | 1441-SB06-27'  | <10     | 240     | < 10    | *       | < 330   |
|                | 1441-SB06-30'  | <10     | 440     | <10     | N A     | <330    |
|                | 1441-SB06-32'  | < 10    | 19      | < 10    | ND      | <330    |
|                | 1441-SB06-35'  | <10     | 350     | < 10    | NA      | <330    |
|                | 1441-SB06-40'  | <10     | 45      | <10     | N A     | NA      |
|                | 1441-SB06-45'  | <10     | 29      | <10     | N A     | NA      |
|                | 1441-SB06-50'  | <10     | 3.3     | <10     | NA      | N A     |
|                |  |         |         |         |         |         |

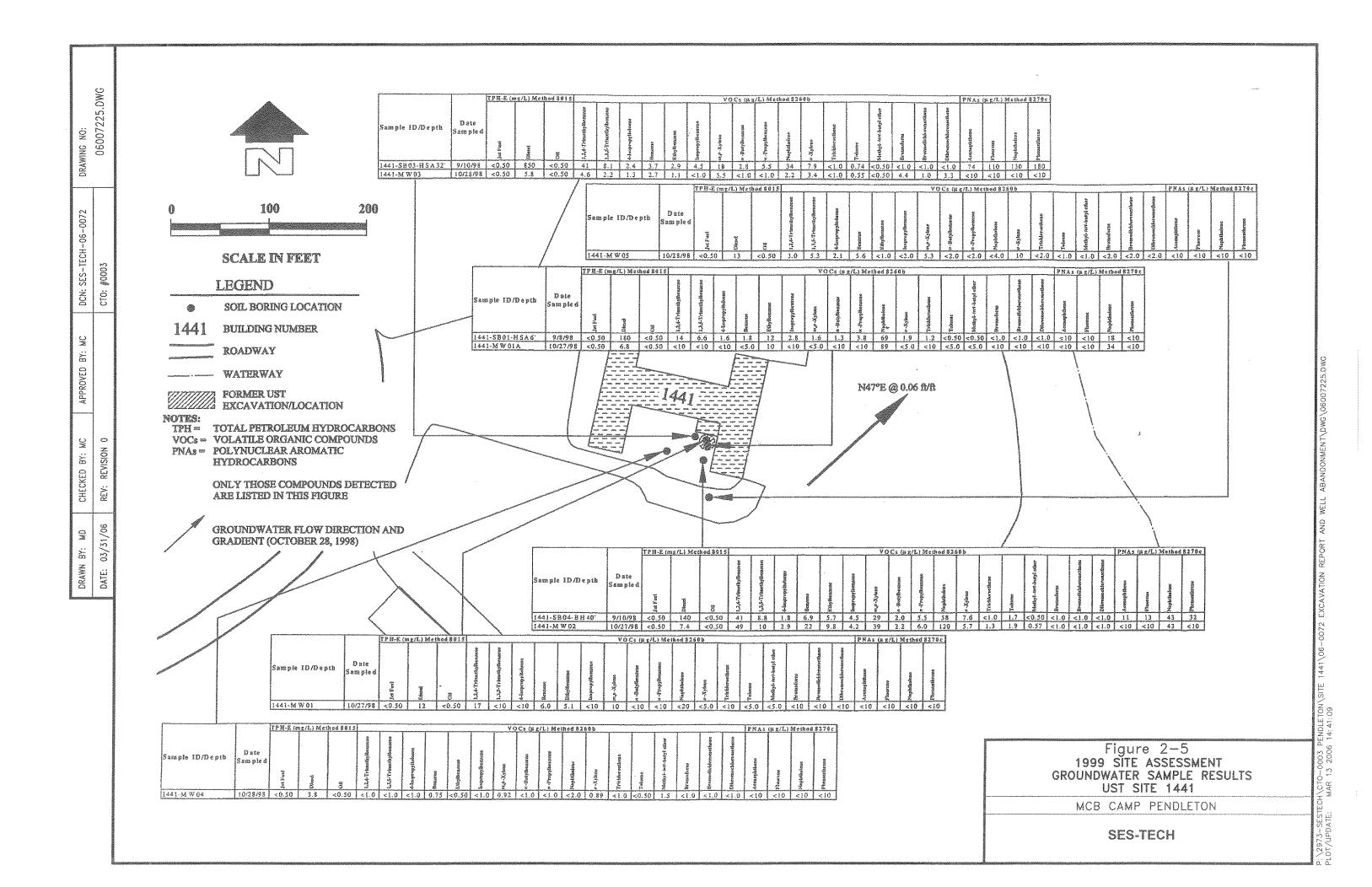
| Sample ID/Depth | TPH-JF  | TPH-D   | TPH-O   | VOCs    | PNAs    |
|-----------------|---------|---------|---------|---------|---------|
| Sambie inthebru | (mg/kg) | (mg/kg) | (mg/kg) | (µg/kg) | (µg/kg) |
| 1441-SB08-5'    | < 10    | 240     | <10     | NΑ      | NΑ      |
| 1441-SB08-11'   | <10     | 560     | <10     | ΝA      | N A     |
| 1441-SB08-15'   | <10     | 4.5     | <10     | NA      | NA      |
| 1441-SB 08-20'  | <10     | 1,200   | <10     | ΝA      | NA      |
| 1441-SB 08-25'  | < 10    | 160     | < 10    | NΑ      | NA      |
| 1441-SB 08-30'  | < 10    | 560     | <10     | ΝA      | NA      |
| 1441-SB 08-35'  | <10     | 420     | - 38    | ND      | < 330   |
| 1441-SB08-40'   | <10     | 330     | 44      | NΑ      | NΑ      |
| 1441-SB 08-45'  | < 10    | 300     | 44      | N A     | ΝA      |
| 1441-SB 08-50'  | <10     | 78      | <10     | NΑ      | NΑ      |
| 1441-SB08-55'   | < 1.0   | 57      | 11      | DN      | < 330   |
| 1441-SB08-60'   | <10     | 250     | 99      | NΑ      | NA      |

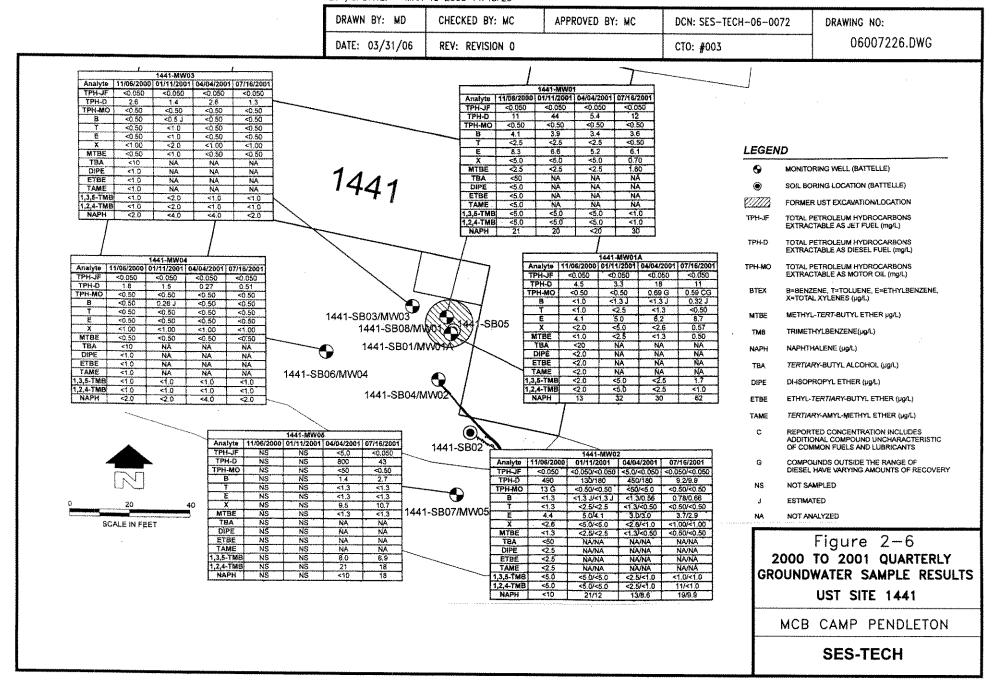
Figure 2-3 1999 SITE ASSESSMENT SOIL SAMPLE RESULTS UST SITE 1441

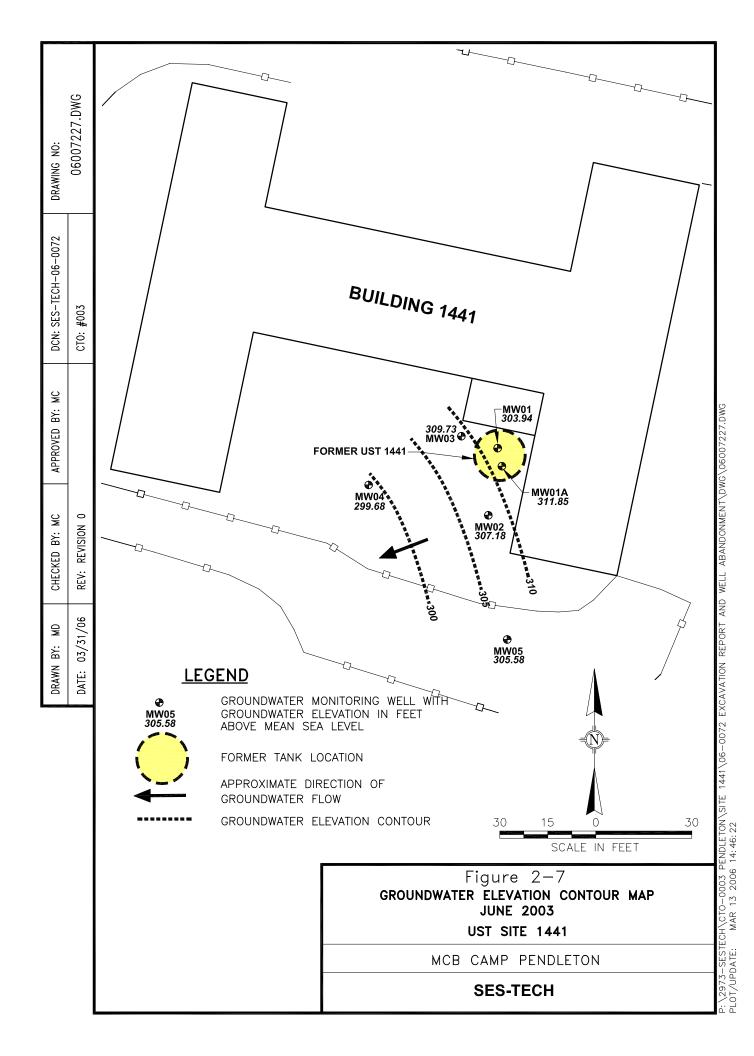
MCB CAMP PENDLETON

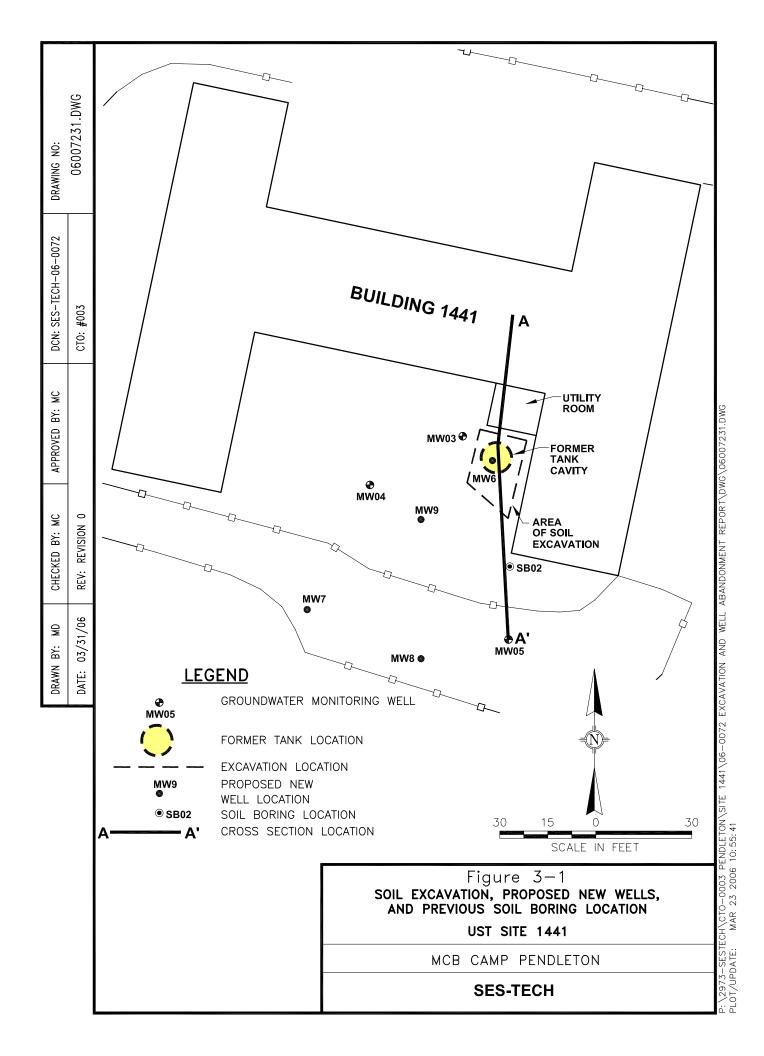
SES-TECH





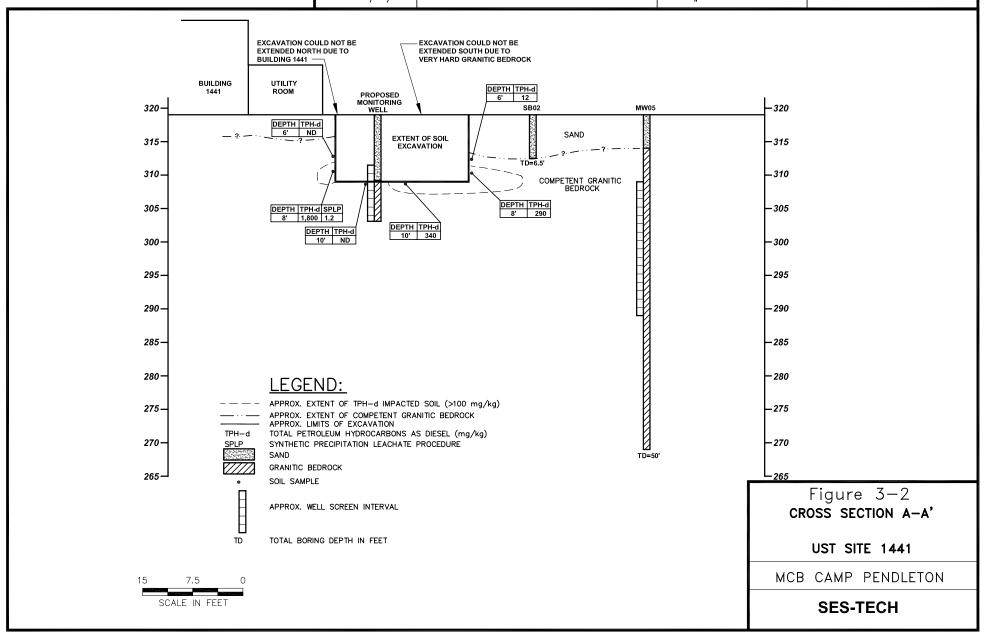






P:\2973-SESTECH\CTO-0003 PENDLETON\SITE 1441\06-0072 EXCAVATION AND WELL ABANDONMENT REPORT\DWG\06007232.DWG PLOT/UPDATE: MAR 24 2006 11:25:41

| DRAWN BY: MD   | DRAWN BY: MD CHECKED BY: MC |  | DCN: SES-TECH-06-0072 | DRAWING NO:  |
|----------------|-----------------------------|--|-----------------------|--------------|
| DATE: 03/31/06 | REV: REVISION 0             |  | CTO: #003             | 06007232.DWG |



## APPENDIX A WELL ABANDONMENT PERMIT



February 10, 2006

Monitoring Well Permit Clerk Site Assessment and Mitigation Program County of San Diego, Department of Environmental Health P.O. Box 129261 San Diego, CA 92112-9261

Subject:

**Well Destruction Permit Protocol** 

UST Sites 14137, 14131, and 1441, MCB Camp Pendleton

Reference:

Permit Number LMON103667, January 6, 2006

Well Permit Clerk:

Tetra Tech EC is submitting this letter in fulfillment of the conditions of boring permit number LMON 103667 issued on January 6, 2006, for work at the following project:

Property Owner:

United States Marine Corps

Site Address:

Building 22165, MCB Camp Pendleton, California 92055

Contact Person:

Mr. Chet Storrs

Assistant Chief of Staff, Environmental Security

On January 27 & 30, 2006, Tetra Tech EC observed the destruction of five 4-inch diameter groundwater monitoring wells, one at Site 14137, one at Site 14131, and three at Site 1441 (A.P.N. #101-520-14-00). The following is a summary of work conducted, including a description of the destruction method, and the type and volume of backfill materials used.

At each of the five wells, the well box was removed before overdrilling began. An 8-inch hollow stem auger was then used to drill the entire depth of each well, with the cuttings being drummed and sent off-site for disposal. Once the wells were overdrilled, the well casings were removed and backfilling began. The approximate volumes of each borehole and the backfill material (in cubic feet) are as follows:

#### Site 14137

#### MW4:

Volume of borehole to 20 feet: 6.9 cubic feet (ft³)

Volume of backfill: 6 ft<sup>3</sup> bentonite grout + 1 ft<sup>3</sup> hydrated bentonite chips on top = 7 ft<sup>3</sup> backfill





#### Site 14131

#### MW4

Volume of borehole to 15 feet: 5.2  $ft^3$ Volume of backfill: 4.5  $ft^3$  bentonite grout + 1  $ft^3$  hydrated bentonite chips on top = 5.5  $ft^3$  backfill

#### Site 1441

During the destruction of the wells at Site 1441, very difficult drilling conditions were encountered. The predominant lithology at the site consists of decomposed granite (bedrock). Due to these conditions, the original boreholes were installed using an air-rotary drilling method, and while attempting to overdrill using a hollow-stem auger rig with an 8-inch auger, refusal was met at an approximate depth of 10 feet. The boreholes were therefore overdrilled to depth using a 6-inch auger.

#### MWI:

Volume of borehole to 38 feet: 8.9 ft<sup>3</sup>

Volume of backfill: 8 ft<sup>3</sup> bentonite grout + 1 ft<sup>3</sup> hydrated bentonite chips on top = 9 ft<sup>3</sup> backfill

#### MW1a:

Volume of borehole to 15 feet: 4.5 ft<sup>3</sup>

Volume of backfill: 4 ft<sup>3</sup> bentonite grout + 1 ft<sup>3</sup> hydrated bentonite chips on top = 5 ft<sup>3</sup> backfill

#### MW2:

Volume of borehole to 30 feet: 7.4 ft<sup>3</sup>

Volume of backfill: 6.5 ft<sup>3</sup> bentonite grout + 1ft<sup>3</sup> hydrated bentonite chips on top = 7.5 ft<sup>3</sup> backfill

To summarize, the volume of backfill material placed in each borehole exceeded the calculated volume of that borehole, indicating the boreholes were adequately abandoned.

If you have any questions, please contact me at (949) 756-7526.

Sincerely,

Tetra Tech EC

Mark Cutler, P.G. Project Manager

Well Location Map

Copy of Permit



Attachments:



PERMIT #LMON103667 A.P.N. #101-520-14-00 EST #H05939-266/267/306

# COUNTY OF SAN DIEGO DEPARTMENT OF ENVIRONMENTAL HEALTH LAND AND WATER QUALITY DIVISION MONITORING WELL PROGRAM

# MONITORING WELL AND BORING CONSTRUCTION AND DESTRUCTION PERMIT

SITE NAME: BUILDINGS 14137, 14131, 1441

SITE ADDRESS: AREA 14, MARINE CORPS BASE, CAMP PENDLETON

PERMIT TO: INSTALL 6 & DESTROY 5 GROUNDWATER MONITORING WELLS

PERMIT APPROVAL DATE: JANUARY 6, 2006

PERMIT EXPIRES ON: MAY 6, 2006

RESPONSIBLE PARTY: U.S. MARINE CORPS, CAMP PENDLETON

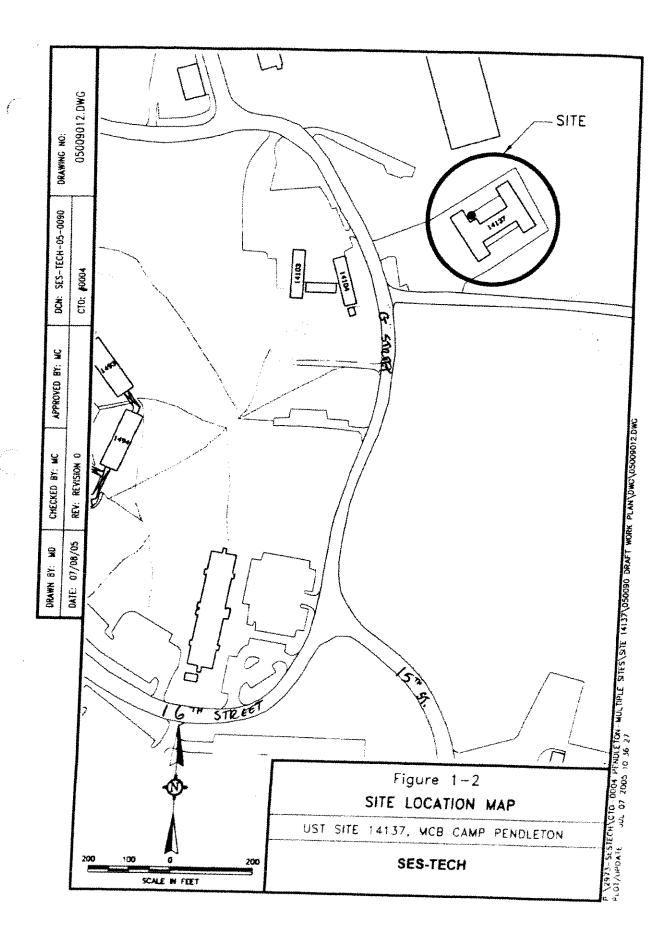
#### **PERMIT CONDITIONS:**

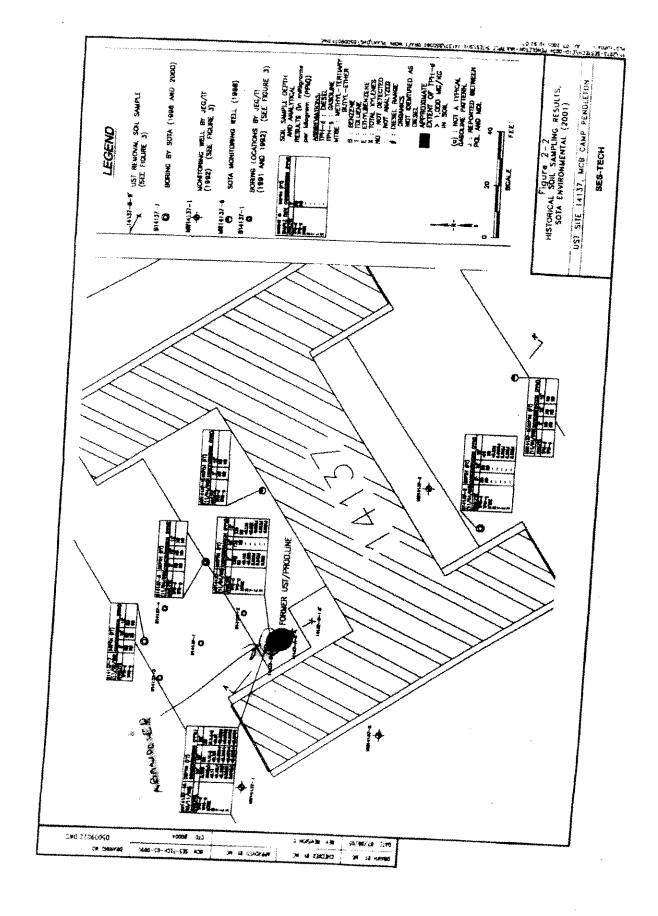
- 1. Each of the monitoring wells must be constructed with a minimum annular seal of 5 feet and a maximum screened interval of 15 feet.
- 2. Contact the Regional Water Quality Control Board for their comments and concerns prior to commencing field activities.
- Wells must have a minimum 3-foot concrete surface seal. The surface seal shall consist of concrete able to withstand the maximum anticipated load without cracking or deteriorating. The concrete should meet Class A specifications of a minimum 4000-pound compressive strength.
- 4. For the well destructions, all material within the original borehole, which includes the casing, filterpack and annular seal, must be removed. The borehole must be completely filled with an approved sealing material as specified in Department of Water Resources Bulletin 74-90.
- 5. All water and soil resulting from the activities covered by this permit must be managed, stored and disposed of as specified in the SAM Manual in Section 5, II, E- 4. (http://www.sdcounty.ca.gov/deh/lwq/sam/manual quidelines.html). In addition, drill cuttings must be properly handled and disposed in compliance with the Stormwater Best Management Practices of the local jurisdiction.
- 6. Within 60 days of completing work, submit a well construction report, including all well and/or boring logs and laboratory data to the Well Permit Desk. This report must include all items required by the SAM Manual, Section 5, Pages 6 & 7.

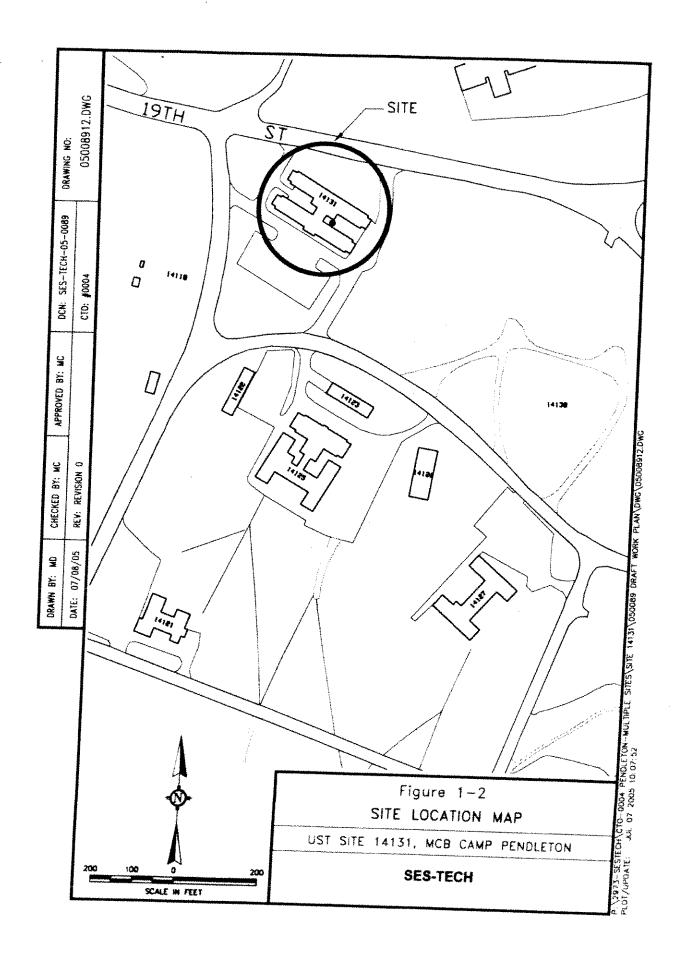
| 7   | This office must be given 49 hous notion of any deliverage to                      |          |
|-----|--|----------|
| • • | This office must be given 48-hour notice of any drilling activity on this site and | advanced |
|     | politication of drilling connelletter Disease                                      | an same  |
|     | notification of drilling cancellation. Please contact the Well Permit Desk at 338- | 2220     |
|     | >  | 2005     |

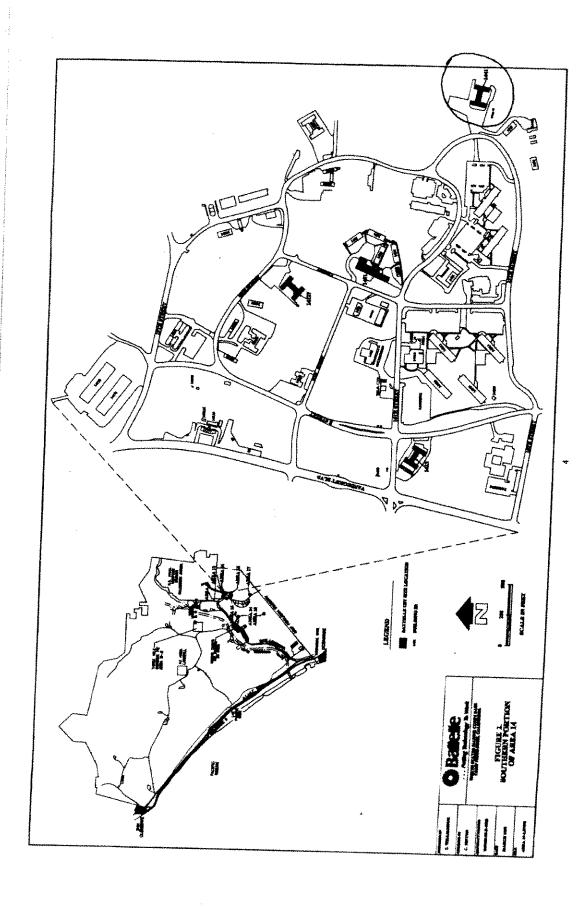
| APPROVED BY: 12 MIN HEATON   | DATE: <u>01/06/2006</u> |
|------------------------------|-------------------------|
| NOTIFIED by espect 1/6/06 ms |                         |

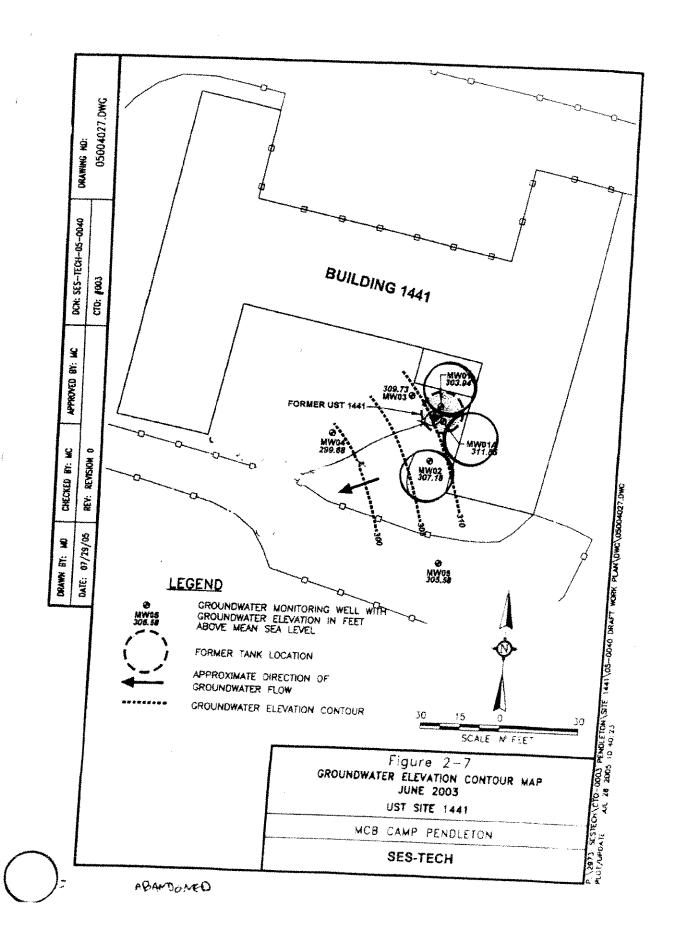
DEH:SAM-9075 (3/05)













PERMIT #LMON103667 A.P.N. #101-520-14-00 EST #H05939-266/267/306

# COUNTY OF SAN DIEGO DEPARTMENT OF ENVIRONMENTAL HEALTH LAND AND WATER QUALITY DIVISION MONITORING WELL PROGRAM

MONITORING WELL AND BORING CONSTRUCTION AND DESTRUCTION PERMIT

SITE NAME: BUILDINGS 14137, 14131, 1441

SITE ADDRESS: AREA 14, MARINE CORPS BASE, CAMP PENDLETON

PERMIT TO: INSTALL 6 & DESTROY 5 GROUNDWATER MONITORING WELLS

PERMIT APPROVAL DATE: JANUARY 6, 2006

PERMIT EXPIRES ON: MAY 6, 2006

RESPONSIBLE PARTY: U.S. MARINE CORPS, CAMP PENDLETON

#### PERMIT CONDITIONS:

- 1. Each of the monitoring wells must be constructed with a minimum annular seal of 5 feet and a maximum screened interval of 15 feet.
- 2. Contact the Regional Water Quality Control Board for their comments and concerns prior to commencing field activities.
- 3. Wells must have a minimum 3-foot concrete surface seal. The surface seal shall consist of concrete able to withstand the maximum anticipated load without cracking or deteriorating. The concrete should meet Class A specifications of a minimum 4000-pound compressive strength.
- 4. For the well destructions, all material within the original borehole, which includes the casing, filterpack and annular seal, must be removed. The borehole must be completely filled with an approved sealing material as specified in Department of Water Resources Bulletin 74-90.
- 5. All water and soil resulting from the activities covered by this permit must be managed, stored and disposed of as specified in the SAM Manual in Section 5, II, E- 4. (http://www.sdcounty.ca.gov/deh/lwg/sam/manual\_guidelines.html). In addition, drill cuttings must be properly handled and disposed in compliance with the Stormwater Best Management Practices of the local jurisdiction.
- 6. Within 60 days of completing work, submit a well construction report, including all well and/or boring logs and laboratory data to the Well Permit Desk. This report must include all items required by the SAM Manual, Section 5, Pages 6 & 7.
- 7. This office must be given 48-hour notice of any drilling activity on this site and advanced notification of drilling cancellation. Please contact the Well Permit Desk at 338-2339.

|  | INHEATON | DATE: 01/06/2006 |
|--|----------|------------------|
|--|----------|------------------|

NOTIFIED: by empil 1/6/04 /nx DEH:SAM-9075 (3/05)



# **COUNTY OF SAN DIEGO**

DEPARTMENT OF ENVIRONMENTAL HEALTH 1255 Imperial Avenue, 3rd Floor San Diego, CA 92101 (619)338-2228

Page | of |

RECEIPT NUMBER:

05-98625

Cashier: MALCANTA

APN: 101-520-14-00 DATE ISSUED: 27-DEC-2005

PERMIT: LMON T103667

SCOPE: COMBINATION OF BORINGS, DEST, WELLS

SITE ADDRESS: AREA 14, BLDG 14131

SUBDIVISION:

CITY: Camp Pendleton, CA 92055

PARCEL OWNER: UNITED STATES OF AMERICA(CAMP P

ADDRESS: PUBLIC AGENCY

CITY/STATE/ZIP: 00000

PERMIT OWNER:

ADDRESS:

CITY/STATE/ZIP:

## Fees Calculated 12 Months Back

| !7-DEC-2005 6LW<br>!7-DEC-2005 6LW<br>!7-DEC-2005 6LW                                       | AD-EHO ADDITIONA  | G WELL<br>R 05/06 ONE-TIME 10% CREDIT<br>L WELL DESTRUCTION  | Paid to Date<br>\$0.00<br>\$0.00<br>\$0.00               | This Receipt<br>\$185.00<br>-\$18.50<br>\$600.00                     | Balance Due<br>\$0.00<br>\$0.00<br>\$0.00                |
|---|---|--|--|--|--|
| 17-DEC-2005 6LW<br>27-DEC-2005 6LW<br>17-DEC-2005 6LW<br>17-DEC-2005 6LW<br>17-DEC-2005 6LW | AM-EHO ADDITIONA<br>AM-ZCRO FISCAL YEA<br>MAINEHO WELL MAIN<br>MAINZCO FISCAL YEA<br>MAIXEHO ADDITIONAI | R 05/06 ONE-TIME 10% CREDIT L MONITORING WELL R 05/06 ONE-TIME 10% CREDIT FENANCE FEE R 05/06 ONE-TIME 10% CREDIT L WELL MAINTENANCE FEE R 05/06 ONE-TIME 10% CREDIT | \$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00 | -\$60.00<br>\$800.00<br>-\$80.00<br>\$100.00<br>-\$10.00<br>\$150.00 | \$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00 |

Totals:

\$1,651.50 \$0.00

ayment Code Description CHECK

Amount \$1,651.50

Tendered: \$1,651.50 Change: \$0.00 **Balance Due:** \$0.00



# PERMIT APPLICATION GROUNDWATER AND VADOSE MONITORING WELLS AND EXPLORATORY OR TEST BORINGS

| Pu  | 10 | CB          |
|-----|----|-------------|
| F 4 |    | The same of |

| OFFICE USE ONLY         |
|-------------------------|
| PERMIT LMON # 10 3 66 7 |
| SAM CASE IN# 195937     |
| DATE RECEIVED:          |
| FEE PAID: 8/45/. 50     |
| CHECK# 90               |
|                         |

| A. RESPONSIBLE PAI   | RTY Marine Corps Base  | Camp Pendleton  | Phone  | (760) 725-9774  |
|--|--|---|--|---|
| Mailing Address  | Building 22165. Area 22  | on, maintenance, and destruction of the Camp Pendleton            | ne proposed borings and/or   | r wells.)   |
| Contact Person Che   | t Storrs, AC/S Environment   | al Security Phone (7)   | 30) 725-9774 ext   | Zip <u>92055-5008</u>   |
| B. SITE ASSESSMENT   | PROJECT NUMBER-IF A  | PPLICABLE # H059  | 39- 266, 267 & 306   |   |
| 3  | Tetra Tech EC  |   | ***************************************                                  |   |
| Mailing Address1   | 940 East Deere Ave., Suite   | 200 City Santa Ana  | State <u>CA</u>  | Zip <u>92705</u>  |
| Registered Professio   | nal <u>Mark Cutler</u>   | Registration # 4  | 487  | (RG, RCE, CEG)  |
| Contact Person T   | ania Turpijn-Keasler   | Phone(949) 2  | 12-0681 Fax (760   | 0) 430-0738   |
| DRILLING COMPAN Mailing Address 362  | Y <u>West Hazmat Drilling C</u><br>O Kurtz Street City San   | orp C57 # 819548 Phone (  | 619-686-5800 Fax 6   | 19-686-5809   |
| E. CONSTRUCTION IN   |  |   |  | ······································  |
| TYPE OF WELLS/ BORINGS TO BE CONSTRUCTED  #  Groundwater 6  Vadose Boring Other  NUMBER OF WELLS TO BE DESTROYED # | CASING  Not Applicable Type PVC Gauge SCH 40 Diameter 4" Well Screen Size 0.010 Filter Pack #2-16 sand | ☐ Cement & Bentonite ☐ Sand-Cement ☑ Bentonite ☐ Other            | Estimated grounds Estimated depth Cement Seal Bentonite Seal Filter Pack | construction water depth 7-18 ft. n of borings 15-35 ft. 0 to 3 feet bgs 3 feet bgs to 2 feet above screen 2 feet above screen to total depth 15 feet OTE: truction diagram iple completions. |
| the or and odding or oding   | requirements of the current<br>Diego and the State of Calif  | Site Assessment and Mitigati<br>ornia pertaining to well/boring   | on Manual, and with a construction and des                               | ill ordinances and truction.  |
| DRILLER'S SIGNATURE _  | Juffer -   |   | DATE   | 2/05  |
|  | oristraction of destraction o  | ng Well Permit Desk with a co<br>f the well/borings in accordance | omplete and accurate ce with the permit app                              | well/boring log. I lication.  |
| RG/RCE/CEG SIGNATURE   | Mule To  | <del>S</del>  | DATE_(に)と  | ilos  |

| F. SITE INFORMATION  |   |
|--|---|
| ASSESSOR'S PARCEL NUMBER 101-000-000     Site Name <u>Marine Corps Base Camp Pendleton, California, UST Site Address</u> Building 14137, Area 14 92055-  | Site City Camp Pendleton Zip                      |
| PROPERTY OWNER United States Marine Corps, AC/S Environm Phone (760) 725-9774 Ext. Mailing Address Building 22165, Area 22 Zip 92055-5008  NUMBER OF WELLS   abandonment   1 install Type OF     | Fax<br>City <u>Camp Pendleton</u> State <u>CA</u> |
| 2. ASSESSOR'S PARCEL NUMBER 101-000-000 Site Name Marine Corps Base Camp Pendleton Site Address Building 14131, Area 14  92055-  | City <u>Camp Pendleton</u> Zip                    |
| PROPERTY OWNER United States Marine Corps, AC/S Environment Phone (760) 725-9774 Ext.  Mailing Address Building 22165, Area 22 Cizip 92055-5008  NUMBER OF WELLS Laburdonneut / Linstall Type OF | Fax<br>City <u>Camp Pendleton</u> State <u>CA</u> |
| 3. ASSESSOR'S PARCEL NUMBER 101-000-000 Site NameMarine Corps Base Camp Pendleton Site Address 1441, Area 14 City Camp   | p Pendleton Zip                                   |
| PROPERTY OWNER United States Marine Corps, AC/S Environme Phone (760) 725-9774 Ext.  Mailing Address Building 22165, Area 22 Zip 92055-5008  NUMBER OF WELLS 3abadonments 4 install TYPE OF V    | Fax<br>ity <u>Camp Pendleton</u> State <u>CA</u>  |
| 4. ASSESSOR'S PARCEL NUMBER Site Name Site Address City  | Zip   |
| City   | x<br>State Zip                                    |
| NUMBER OF WELLS TYPE OF W  | WELLS   |

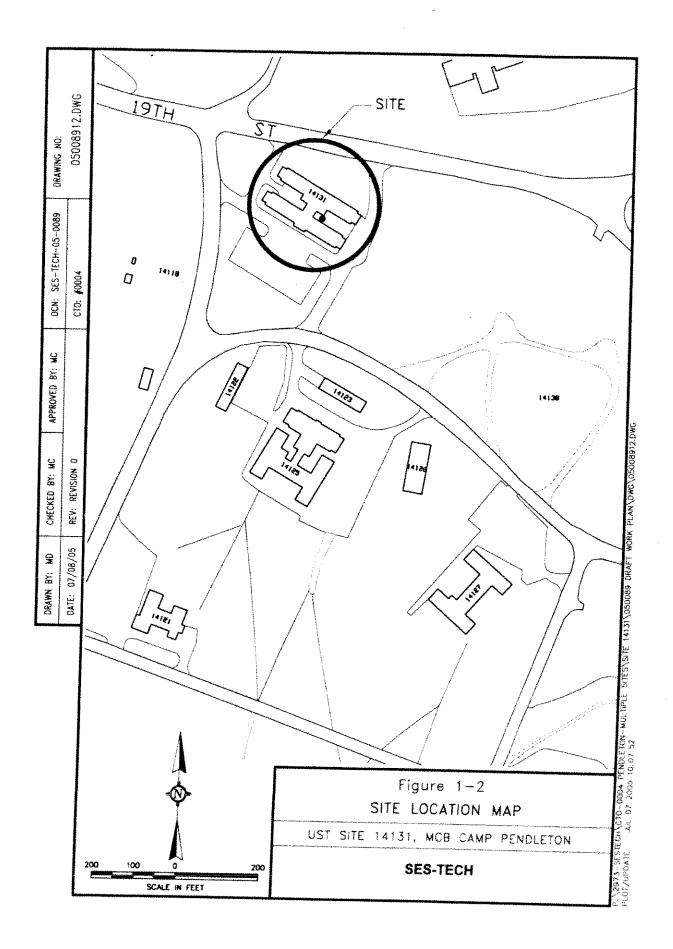
# G. FEES (in effect beginning July 1, 2005, through June 30, 2006)

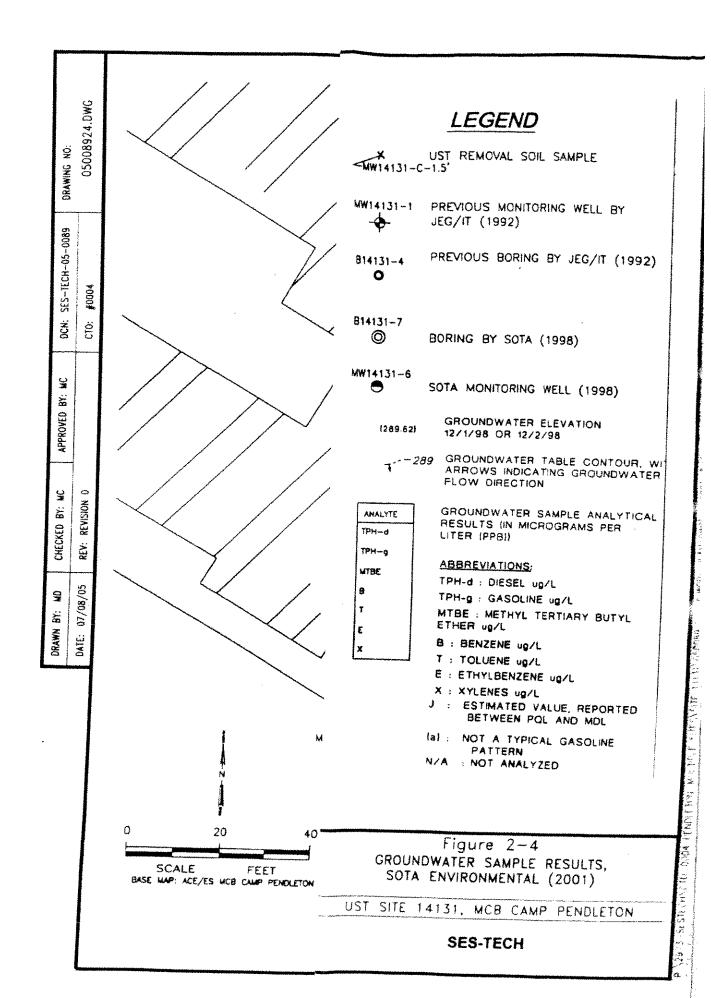
The County Board of Supervisors authorized a 10% credit, for the Fiscal Year ending June 30, 2006, to be applied to the Department of Environmental Health customers. This credit is being provided to qualified fee-based programs that have contributed to the cost reduction/cost containment/cost avoidance efforts initiated by the Department. This fee adjustment, for the Fiscal Year ending June 30, 2006, is applicable to fees and permits due and/or obtained during this period. The 10% is not applicable to enforcement fees or fees relating to non-compliance of permit regulations.

| ACTIVITY   | FEE SCHEDULE   | AMOUNT  |
|--|--|---|
|  | FEE - ONE-TIME FISCAL YEAR 10%<br>CREDIT   |   |
| Permit for Well Installations Only<br>Groundwater Monitoring Wells, Vadose<br>Vapor Extraction Wells)  | \$185.00 for the first monitoring well<br>\$185.00 - 10% <\$18.50> =   | x \$166.50 \$   |
| Permit for Well Maintenance<br>Inspection<br>(Valid for three years)   | \$100.00 for first well maintenance inspection<br>\$100.00 - 10% <\$10.00> =   | x \$ 90.00 s  |
| <b>**</b>  | \$160.00 for each additional well installation<br>\$160.00 - 10% <\$16.00> =   | x \$144.00 \$   |
| Each Additional New Well   | \$ 30.00 for each additional well maintenance inspection \$ 30.00 - 10% <\$ 3.00> =  | x \$ 27.00 \$   |
| Permit for Borings Only<br>(CPT's, Hydropunch, Geoprobes,<br>Temporary Well Points, etc.)  | \$185.00 for the first boring<br>\$185.00 10% <\$18.50> =<br>\$ 50.00 for each additional boring<br>\$ 50.00 10% <\$ 5.00> =                       | x \$166.50 \$<br>x \$ 45.00 \$                                    |
| Permit for<br>Well Destructions Only   | \$185.00 for the first destruction<br>\$185.00 - 10% <\$18.50> =<br>\$120.00 for each additional destruction<br>\$120.00 - 10% <\$12.00> =         | x \$166.50 \$<br>x \$108.00 \$                                    |
| Permit for any Combination of Well<br>stallations, Borings, & Destructions<br>(except UST backfill permit)<br>Permit for any Combination of Well | The first activity will be \$185.00,<br>\$185.00 - 10% <\$18.50> =<br>Additional activities will be as follows:                                    | 1_x \$188.50 \$ 166.50  |
| stallations, Borings, & Destructions<br>(except UST backfill permit)   | \$160.00 for each additional well<br>\$160.00 10% <\$16.00> =<br>\$100.00 for first well maintenance inspection<br>\$100.00 10% <\$10.00> =        | 5 x \$144.00 \$ 720.00<br>1 x \$ 90.00\$ 90.00                    |
|  | \$ 30.00 for each additional well maintenance inspection \$ 30.00 – 10% <\$ 3.00> = \$ 50.00 for each additional boring \$ 50.00 – 10% <\$ 5.00> = | _5 x \$ 27.00 \$ \(\frac{135.00}{5}\) x \$ 45.00 \$ x \$ 45.00 \$ |
|  | \$120.00 for each well destruction<br>\$120.00 - 10% <\$12.00> =   |   |
|  | TOTAL COST OF PERMIT   | \$1,651.50  |
| mit for Underground Storage Tank<br>Monitoring System in Backfill<br>(i.e. Enhanced Leak Detection)  | (Flat Fee)<br>\$320.00 - 10% <\$32.00> =   | \$288.00  |

- QUESTIONNAIRE: Please answer all applicable questions completely. For well destructions, complete H. only #1 below and submit any required supportive documentation. 1. If wells are to be destroyed, provide a description of method of destruction Overdriilling with hollow-stem auger, followed by backfilling using a tremie pipe to the surface with hydrated bentonite chips. Removal of existing well box. 2. What is the purpose of the well/boring investigation? a. Part of an ongoing site assessment case in which DEH or another government regulator is the lead agency. b. Part of a Phase I investigation for property ownership transfer or: c. Geotechnical investigation for proposed construction, land stabilization or: d. Other: 3. What procedures will be used to prevent the well/boring from providing an avenue to contamination during construction? All drilling equipment will be decontaminated prior to drilling each borehole. 4. What field procedures will be utilized to determine if contamination exists? photo-ionization detector 5. What procedures will be used to determine whether samples will be sent for laboratory testing or archiving? No samples will be sent to the laboratory. 6. What constituents will be monitored and tested (Include EPA Laboratory Test Methods to be used)? N/A 7. How will samples be transported and preserved? N/A 8. What sampling methods will be used? N/A 9. Are you proposing a variation from the methods and/or procedures presented in the requirements for the construction or destruction of Vadose and Groundwater Monitoring Wells (Current SAM Manual Requirements)? If yes, specify these variations and include a well construction diagram and all required Refer to the SAM Manual Appendix B for monitoring well guidelines supporting documentation. (http://www/sdcounty.ca.gov/deh/lwg/sam/monitoring\_well.html). No
  - 10. Are you proposing a variation in drilling and destruction of soil borings from the methods and/or procedures specified in the current SAM manual? If yes, specify these variations and include a destruction diagram. No
  - 11. What procedures will be used to ensure that the drilling equipment will introduce no contamination? All drilling equipment will be decontaminated prior to use at each borehole.
  - 12. What methods will be used to clean sampling equipment? All sampling equipment will be washed in detergent solution, rinsed in potable water and rinsed again in deionized water.

| pre-cleaned. |   |   |   | laterials will arrive o |
|--------------|---|---|---|-------------------------|
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PERMIT # W97790 A.P.N. # 101-000-00 EST # H05939

DATE: 9/15/98

## COUNTY OF SAN DIEGO DEPARTMENT OF ENVIRONMENTAL HEALTH SITE ASSESSMENT AND MITIGATION DIVISION

# MONITORING WELL AND BORING CONSTRUCTION AND DESTRUCTION PERMIT

SITE NAME: AREA 14 - BUILDINGS 14125, 14131, 14137

SITE ADDRESS: MARINE CORP BASE, CAMP PENDLETON, CA 92055

PERMIT FOR: INSTALL 9 GROUNDWATER MONITORING WELLS AND 15 HYDROPUNCH

PERMIT APPROVAL DATE: SEPTEMBER 15, 1998

PERMIT EXPIRES ON: JANUARY 13, 1999

### PERMIT CONDITIONS:

- 1. Contact the RWQCB for their comments and concerns regarding the proposed activities.
- All borings must be destroyed in accordance with Department of Water Resources Bulletin 74-81 and 74-90.
- 3. All wash water must be contained and disposed of properly.
- 4. Submit complete laboratory data for both soil and groundwater with the well logs.
- 5. Submit all the information specified in the SAM Manual in:

Section 6, Page B-8, C., 2.

- 6. All water and soil that is placed in drums must be labeled and stored as specified in the SAM Manual in:
  - Section 1, Page 12, (5).
- 7. This office must be given 48 hour notice of any drilling activity on this site. Please contact Marisue Crystal at (619) 338-2339.
- 8. This office must be given advanced notification of drilling cancellation. Please contact Marisue Crystal at (619) 338-2339.

NOTE: This permit does not constitute approval of a workplan as defined in Section 2722 of Article 11 of C.C.R., Title 23. Workplans are required for all unauthorized release investigations in San Diego County.

Notified: D. MUAThy

9/10/98 CC

# SOIL DATA LOG

# BORING NUMBER: MW14131-4 TOP OF CASING ELEVATION: 296.43 FEET +MSL

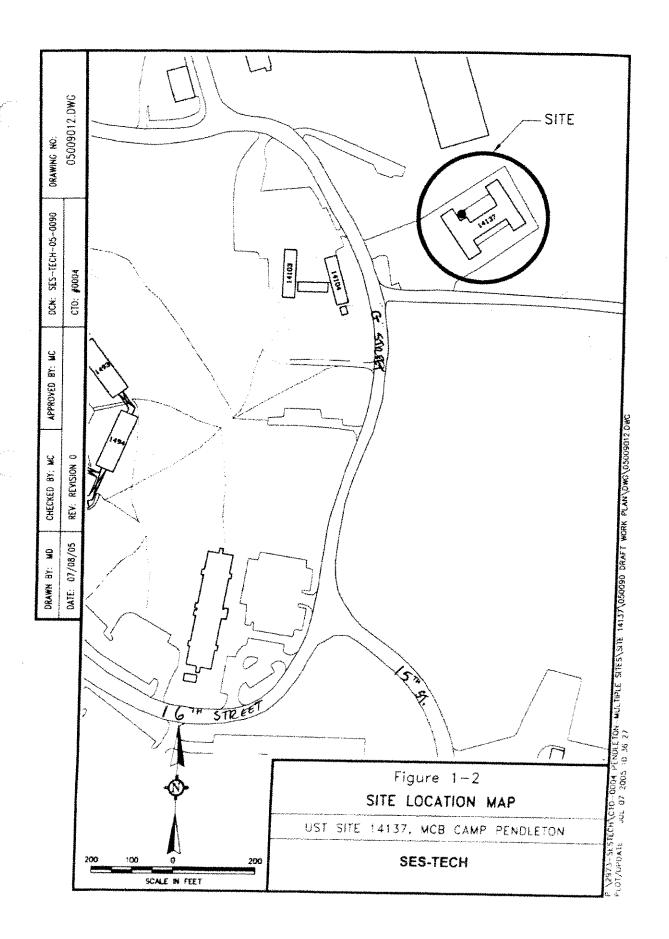
| BRILLING CONTINCIONS SPECTRUM EXPLORATION, INC.  DRAIL MATE 11/5/98  DRAIL MATE 11/5/9 |
|--|
| EXCAVATION BACKFILL:  Gray-brown, moist, medium dense, silty SAND; w/some gravel.  1,000  9': Changes to saturated, dark gray; strong diesel odor.  SANTIAGO FORMATION: Light green, moist, stiff, sandy CLAYSTONE.  18  87/ 11  TOTAL DEPTH = 15' GROUNDWATER ENCOUNTER  MONITORING WELL INSTALLED 11/6/98  |
| EXCAVATION BACKFILL:  Gray-brown, moist, medium dense, silty SAND; w/some gravel.  1,000  9': Changes to saturated, dark gray; strong diesel odor.  SANTIAGO FORMATION: Light green, moist, stiff, sandy CLAYSTONE.  18  87/ 11  TOTAL DEPTH = 15' GROUNDWATER ENCOUNTER  MONITORING WELL INSTALLED 11/6/98  |
| EXCAVATION BACKFILL:  Gray-brown, moist, medium dense, silty SAND; w/some gravel.  1,000  9': Changes to saturated, dark gray; strong diesel odor.  SANTIAGO FORMATION: Light green, moist, stiff, sandy CLAYSTONE.  18  87/ 11  TOTAL DEPTH = 15' GROUNDWATER ENCOUNTER  MONITORING WELL INSTALLED 11/6/98  |
| EXCAVATION BACKFILL:  Gray-brown, moist, medium dense, silty SAND; w/some gravel.  1,000  9': Changes to saturated, dark gray; strong diesel odor.  SANTIAGO FORMATION: Light green, moist, stiff, sandy CLAYSTONE.  16  87/ 11  TOTAL DEPTH = 15' GROUNDWATER ENCOUNTERED © 9.5' NO CAVING MONITORING WELL INSTALLED 11/6/98  |
| SM Gray-brown, moist, medium dense, silty SAND; w/some gravel.  1,000  15  10  CH SANTIAGO FORMATION: Light green, moist, stiff, sandy CLAYSTONE.  18  19  10  10  10  11  11  15  TOTAL DEPTH = 15' GROUNDWATER ENCOUNTERED © 9.5' NO CAVING MONITORING WELL INSTALLED 11/6/98  |
|  |

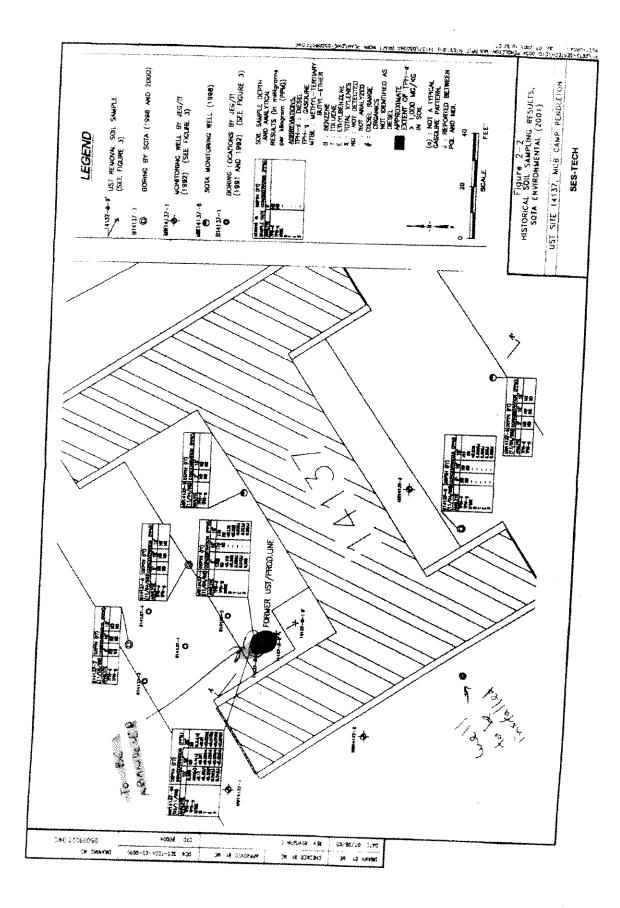


UST SITE 14131
MCB CAMP PENDLETON
CAMP PENDLETON, CALIFORNIA

FIGURE MW-4
PROJECT NO. 97HW024

JUNE 1999





# SOIL DATA LOG

WELL NUMBER: MW14137-4 TOP OF CASING ELEVATION: 284.28 FEET +MSL

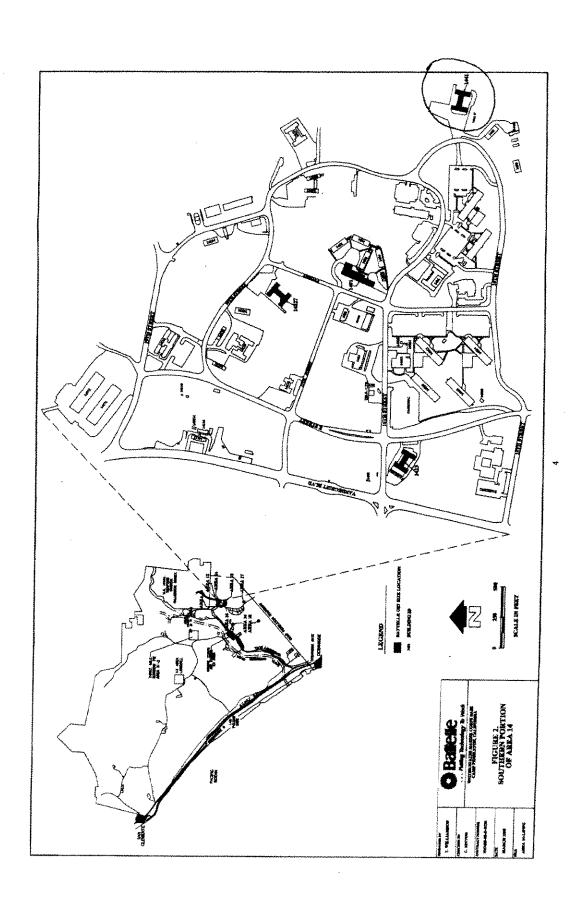
|     | œ            |                  | ¥  | <b></b>  | T.,                                     |           | Ī          | C3                                      |   | DRILLING CONTRACTOR: SPECTRUM EXPLORATION, INC.        | DRUL DATE: 11/4/98   |
|-----|--------------|------------------|--|--|---|-----------|------------|---|---|--|--|
|     | S            | " B              | SAMP   | ŽE   | ā                                       | 물         | 3          | 9                                       | CLASS                                   | DRILLING METHOD: HOLLOW-STEM AUGER DRILL RIG: CME-75HT | BORING DIAM: 8.5-INCH  |
|     | WELL CONSTR. | TPHIG<br>(mg/kg) | S)   | BLOW COUNT<br>(blows/ft.)  | SOIL SAMPL                              | GW SAMPLE | ОЕРТН (п.) | GRAPHIC                                 | ರ                                       |  | BY: M. SAYRE   |
|     | 1            | ్ క              | DRIVEN   | 38   | 븅                                       | 35        | 5          | 8€                                      | )<br>30                                 |  | D BY: D. MURTHY  |
|     | ₹            |                  | ă  | 00   | S                                       |           |            | 3                                       |   | DESCRIPTION/INTERPRETATION                             |  |
|     | П.           |                  |  |  |   |           |            | - 55                                    |   | ASPHALTIC PAVEMENT:                                    |  |
|     | • .          |                  |  |  |   |           | -          |   |   | Approximately 3" thick.                                |  |
| 7   | 1 7          |                  |  |  |   |           |            | 19 8 8                                  |   |  |  |
| 1   | 1 1/1        |                  |  |  |   |           |            |   | SM/                                     | EXCAVATION BACKFILL:                                   |  |
| 1   | 1 / 2        |                  |  |  |   |           | -          |   | GM                                      | Yellow-brown, moist, medium dense, silty SAND o        | nd GRAVEL.   |
| - 2 | 12           |                  |  |  | -                                       |           |            | 14 14 1                                 |   | •  |  |
|     |              | 130              |  | 11   |   |           |            |   |   |  |  |
| 3   | Ħ            |                  |  |  | 7                                       |           | 5-         |   |   | 👽 5' : Changes to moist, gray staining, moderate       | diesel odor.   |
| ं   |              |                  |  |  | _                                       |           | _          |   |   |  |  |
|     |              |                  |  |  |   |           |            |   |   |  | ***************************************  |
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|     | EN           |                  |  |  |   |           |            |   |   |  |  |
| v.  |              |                  |  | 61/  |   |           | -          |   |   | •  |  |
|     | [-i.]        | 17               |  | 6"   |   | $\nabla$  | 10 -       |   |   | \varTheta 10" : Changes to saturated.                  |  |
| 17  | [-}-         | ļ                |  |  |   | -         | -          |   |   | RESIDUAL SOIL:   |  |
|     | 田川           |                  |  |  |   |           | -          |   | SM                                      | Gray to gray-brown, moist, very dense, silty SANE      | - I  |
|     |              | 1                |  |  |   |           |            |   |   | ordy to gray brown, moist, very defise, siny SAME      |  |
|     | []:4         |                  |  |  |   |           |            |   | ĺ                                       |  |  |
|     |              | 1                |  |  | İ                                       |           |            |   |   |  |  |
|     |              | ND               | 1  | 100/   |   |           | -          |   | i                                       |  |  |
|     | 以            | "                | 1  | 4"   |   | l         | 15 -       | 8 8 6                                   |   |  |  |
|     | انعتت        | İ                |  |  |   |           | 1          |   |   | TOTAL DEPTH = 15'                                      |  |
|     |              | ĺ                |  |  |   |           | ٦          |   |   | GROUNDWATER ENCOUNTERED . 10'                          |  |
|     | - 1          |                  |  |  |   |           | 4          |   | 1                                       | NO CAVING  |  |
|     | j            |                  |  | 1  |   | -         |            |   |   | WELL CONSTRUCTED 11/4/98                               |  |
|     |              | -                |  | - 1  | ١                                       |           | 1          |   | 1                                       |  |  |
|     |              | 1                |  | - 1  | -                                       |           | -          |   | 1                                       |  |  |
|     |              |                  |  |  |   | ı         | 20 -       |   | 1                                       |  |  |
|     | l            | I                | ***************************************  |  | ١                                       |           |            | j                                       |   |  | ***************************************  |
|     |              |                  |  | - 1  | 1                                       | l         | 7          |   |   |  |  |
|     |              |                  | l  | 1  |   |           | -          | [                                       |   |  |  |
|     | -            |                  |  |  |   |           | 1          | *************************************** | ļ                                       |  |  |
|     |              | J                | The state of the s |  |   |           | 7          | *************************************** | -                                       |  | unu-erabings.  |
|     |              |                  |  |  |   |           | -          |   | *************************************** | AE.  | TOP  |
|     |              | 4                |  |  |   |           |            |   | *************************************** | GTERE  | -4605  |
|     |              |                  |  |  | 1                                       |           | 25 -       | 1                                       |   | / <u>u</u> g/  | 15/  |
|     | -            |                  | -  | To the second se |   |           | 4          | ********                                | *************************************** | CASTERE<br>Wichae                                      | E. Sayre 14  |
|     |              | To the second    | PA MERANDA   | - tricking depth and   |   |           | 1          | Wetterform                              |   |  |  |
|     |              | ļ                | -  |  |   |           | 1          | **************************************  |   | \.o\ No.   | 6355 /_/   |
| I   |              |                  | ***************************************  |  | *************************************** | -         | 1          | Political and                           | -                                       | (3)  |  |
|     |              | l                |  |  |   |           | 1          | Ì                                       | ****Constant                            | × € o E  | ALIFORNI   |
|     | 4            |                  |  | ***************************************  | -                                       |           | 1          | -                                       |   | // 970   |  |
|     |              | L_               |  |  | 1                                       | _         | _1         |   |   | /  | The state of the s |

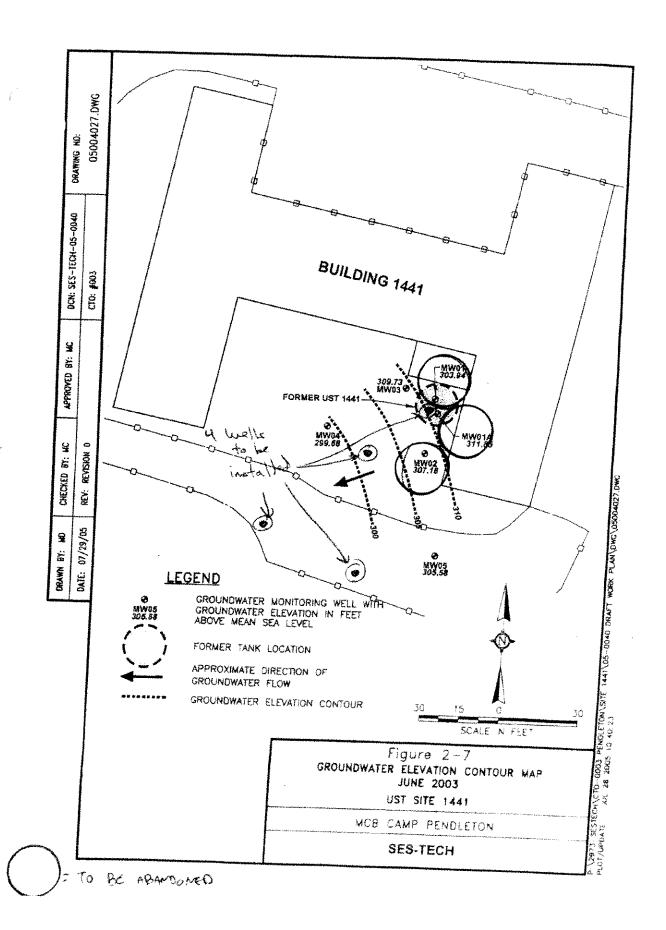


UST SITE 14137
MCB CAMP PENDLETON
CAMP PENDLETON, CALIFORNIA

FIGURE MW-4
PROJECT NO. 97HW024

JUNE 2000







**PERMIT #W97569** A.P.N. # 101-000-00 EST # H05939

## COUNTY OF SAN DIEGO DEPARTMENT OF ENVIRONMENTAL HEALTH SITE ASSESSMENT AND MITIGATION DIVISION

# MONITORING WELL AND BORING CONSTRUCTION AND DESTRUCTION PERMIT

SITE NAME: AREA 14, BUILDING 1441

SITE ADDRESS: MCB CAMP PENDLETON, CAMP PENDLETON, CA 92055

PERMIT FOR: 6 BORINGS

PERMIT APPROVAL: MAY 21,1998

PERMIT EXPIRES ON: SEPTEMBER 18, 1998

# PERMIT CONDITIONS:

- No Workplan has been received or reviewed for the work proposed on any of the sites. No new 1. work should occur without approval from this department. Please contact Lars Skinner at
- All borings must be destroyed in accordance with Department of Water Resources Bulletin 74-81 and 2.
- All wash water must be contained and disposed of properly. 3.
- Submit complete laboratory data for both soil and groundwater with the well logs. 4.
- Submit all the information specified in the SAM Manual in: 5.

Section 6, Page B-8, C., 2.

All water and soil that is placed in drums must be labeled and stored as specified in the SAM Manual 6.

Section 1, Page 12, (5).

- This office must be given 48 hour notice of any drilling activity on this site. Please contact Marisue 7.
- This office must be given advanced notification of drilling cancellation. Please contact Marisue 8. Crystal at (619) 338-2339.

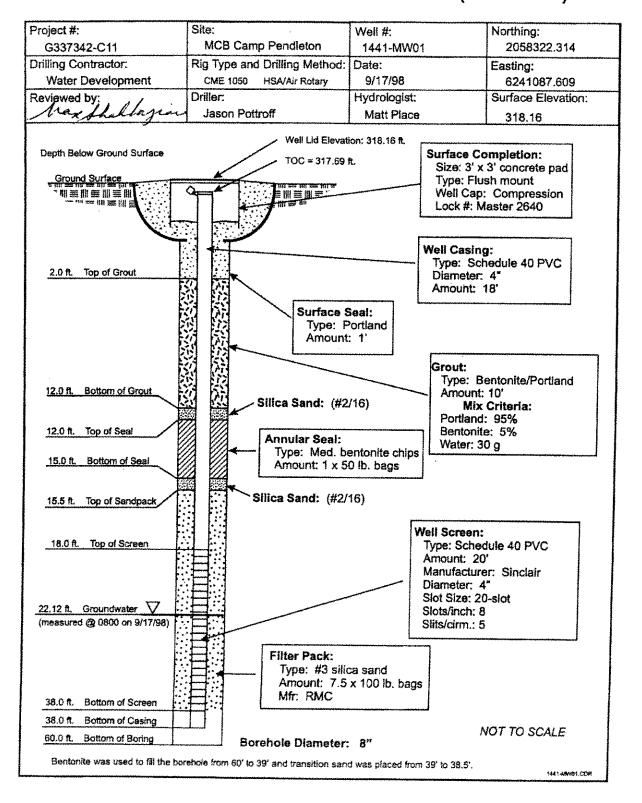
This permit does not constitute approval of a workplan as defined in Section 2722 of NOTE: Article 11 of C.C.R., Title 23. Workplans are required for all unauthorized release investigations in San Diego County.

APPROVED BY Notified: 1/1/2

DATE: 5/21/98

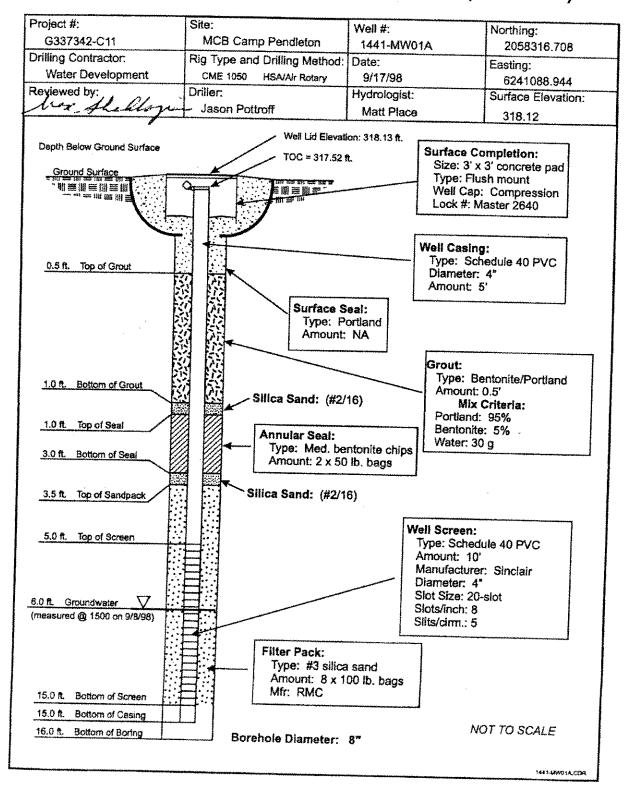


## MCB CAMP PENDLETON - D.O. 42 WELL COMPLETION DIAGRAM 1441-MW01 (1441-SB08)



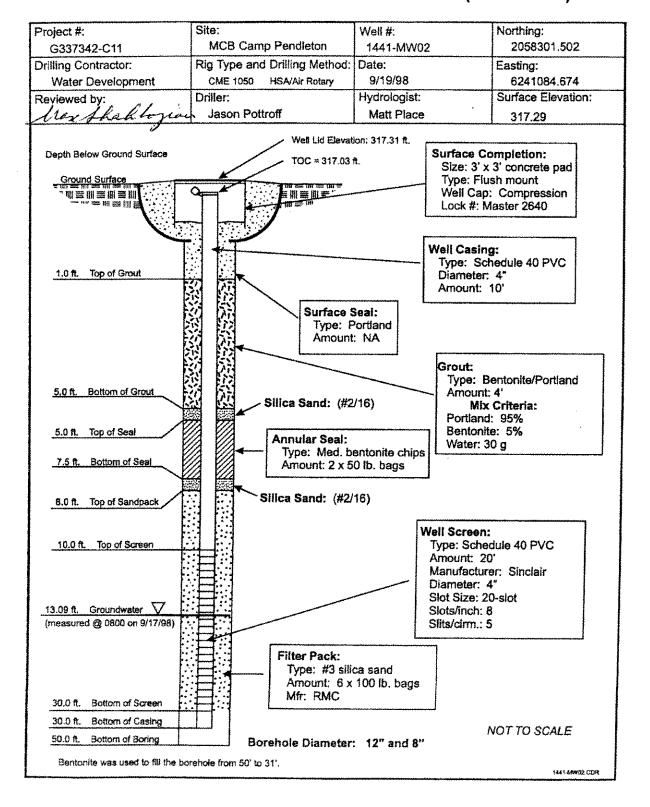


# MCB CAMP PENDLETON - D.O. 42 WELL COMPLETION DIAGRAM 1441-MW01A (1441-SB01)





## MCB CAMP PENDLETON - D.O. 42 WELL COMPLETION DIAGRAM 1441-MW02 (1441-SB04)



# APPENDIX B STOCKPILE WAIVER CERTIFICATION

### CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD SAN DIEGO REGION 9174 Sky Park Court, Suite 100 RWGCB Regulatory Program: San Diego, CA 92123-4340 ☐ DoD/SLIC UST/AGT/LOP COUNTY\_ Attention: Land Discharge Unit I. Generator of Temporary Waste Pile **SECTION A: Temporary Waste Pile Walver Certification** Environmenta ansig II. Present Status of Temporary Waste Pile Buildine Morine a 92055 OF COL YOUR Bam + Park Shooting Waste Type Contaminant/Constituent Concentrations Contembrant Type/Source: Diesel (malka) # - BAR &T 2 Channel 294.N Other Petrol. Hydrocarbons ☐ Impacted Dredge Spalls Marie + Mills Col. Man + 40% Q.L. Other Impacted Solls **III. Waste Pile Site Information** t Conditions Met -Ground Water Separation Surface Water Separation Handlotela Flood Plain Protection . . . Cover of Whate Pile hich Starrs profiledge receipt of the entitle chief beginning the notice, and administing that I have resigned to the Granatte of that that a has coralled that all the conditions for the water from We I herety administration receipt of their had reports. By signing this form ingl wants indicatignt in Spillato II (playe) have been must. IV. Generator Cartification

I hereby curtify that the information provided regarding soil characterization is a complete and accurate representation of the subject soil, and that the soil is not hezardous weste as defined by the California Code of Regulations, Title 22, and by the United States Environmental Protection Agenc (Code of Federal Regulations, Title 40), and that all conditions for the walver from WDRs for discharge of specified wastes indicated in Section II (at

|                         | Vermos mente, sum Dibijo Kajibin           |           | -         | Varsion: 7/3/02 |
|-------------------------|--|-----------|-----------|-----------------|
| California Regional Wes | or Quality Control Scard, Sun Diago Ragion |           | 7=4-0-(-) | <i>)</i>        |
| Species                 | Many                                       | Deuter /2 | 1060      | ~ /             |
|                         |  | - RECENT  | Uranib    | Head            |
| Print Harner            | D.torrs                                    | The Ren   | B 1       | 16 1            |
|                         | ( / .                                      |           |           |                 |

# MAIL CERTIFICATION FORMS TO:

# CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD SAN DIEGO REGION

9174 Sky Park Court, Suite 100 San Diego, CA 92123-4340

Attention: Land Discharge Unit Supervisor



| V. Final Waste Disposal Informa   | tion SECTION B: Temporary V  | Waste Pile Waiver Certification          |
|---|--|--|
| Final Disposition of Waste  | Discharger/Property Owner  |  |
| Offsite/Landfill disposal   | Property Owner/Discharger: U.S. May inc.   | Corps LUSTSITE 1441                      |
| On-site reuse/disposal  | Mailing Address:   | ildine 22/65                             |
| Off-site reuse/disposal   | Comp Pandleton Son Diego   | State: Zip: 92055                        |
| Other   | 0  |  |
|   | Contact Name:  | Phone:                                   |
|   | Chet Storrs Date(s) Waste Pile(s) Disposed:  | 760-725-9774<br>Disposal Location(s):    |
|   |  | Cardelaria Environmenta                  |
|   |  | 4001, Candelaria Lane,<br>Anza, Ca 92539 |
|   |  | HV12a, Ca 92539                          |
| Final Disposal Certification  |  |  |
| "I certify under penalty of law that I hav<br>and that, based on my inquiry of those in | e personally examined and am familiar with the information of the information of the information of the information, and information, and information, and information, and information, and information, and information, and information, and information, and information, and information, and information, and information, and information, and information, and information and informa |  |
| Print Name:   | <u> </u>   | ie. Ren Branch Head                      |
| Signature:  | Date   | e: 13 Feb Co                             |
|   |  |  |
| For Agency Use Only<br>RWQCB Regulatory Progra  | ern.   |  |
|   |  |  |

## **APPENDIX C**

CONFIRMATION SOIL SAMPLE AND BACKFILL MATERIAL ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY DOCUMENTATION



### **TABLE OF CONTENTS**

CLIENT:

SES-TECH

PROJECT:

**CAMP PENDLETON, UST SITE 1441** 

SDG:

06A173

| SECTION          |                        | PAGE        |
|------------------|------------------------|-------------|
| Cover Letter, Co | OC/Sample Receipt Form | 1000 – 1003 |
| GC/MS-VOA        | 東京                     | 2000 –      |
| GC/MS-SVOA       | **                     | 3000 —      |
| GC-VOA           | ***                    | 4000        |
| GC-SVOA          | METHOD 3550B/8015B     | 5000 - 5054 |
| HPLC             | **                     | 6000        |
| METALS           | ***                    | 7000 –      |
| WET              | · 大夫                   | 8000        |
| OTHERS           | **                     | 9000 -      |
|                  |                        |             |

<sup>\*\* -</sup> Not Requested





1835 W. 205th Street Torrance, CA 90501

Tel: (310) 618-8889 Fax: (310) 618-0818

Date: 02-03-2006 EMAX Batch No.: 06A173

Attn: Nick Weinberger

SES-TECH

1940 E. Deere Avenue, Suite 200

Santa Ana CA 92705

Subject: Laboratory Report

Project: Camp Pendleton, UST Site 1441

Enclosed is the Laboratory report for samples received on 01/31/06. The data reported include :

| Sample ID   | €antrol # | Col Date | Matrix | Analysis   |
|-------------|-----------|----------|--------|------------|
|             |           |          |        |            |
| 0003-069    | A173-01   | 01/31/06 | SOIL   | TPH DIESEL |
| 0003-070    | A173-02   | 01/31/06 | SOIL   | TPH DIESEL |
| 0003-071    | A173-03   | 01/31/06 | SOIL   | TPH DIESEL |
| 0003-072    | A173-04   | 01/31/06 | SOIL   | TPH DIESEL |
| 0003-7073   | A173-05   | 01/31/06 | SOIL   | TPH DIESEL |
| 0003-074    | A173-06   | 01/31/06 | SOIL   | TPH DIESEL |
| 0003-075    | A173-07   | 01/31/06 | SOIL   | TPH DIESEL |
| 0003 - 076  | A173-08   | 01/31/06 | SOIL   | TPH DIESEL |
| 0003-077    | A173-09   | 01/31/06 | SOIL   | TPH DIESEL |
| 0003-078    | A173-10   | 01/31/06 | SOIL   | TPH DIESEL |
| 0003-079    | A173-11   | 01/31/06 | SOIL   | TPH DIESEL |
| 0003-077MS  | A173-09M  | 01/31/06 | SOIL   | TPH DIESEL |
| 0003-077MSD | A173-09s  | 01/31/06 | SOLL   | TPH DIESEL |

The results are summarized on the following pages.

Please feel free to call if you have any questions concerning these results.

Sincerely yours,

Kam Y. Pang, Ph.D. Laboratory Director



NUMBER 04974

CHAIN-OF-CUSTODY RECORD FOSTER WHEELER ENVIRONMENTAL CORPORATION (128) CORPORATION (128) Columbia Street, Suit 649 - San Diegn, Ct 92101 - (619), 234-8956

| りの本にの  | LABORATORY NAME        | Ċ  | Ž  | LABORATORY ID<br>(FOR LABORATORY)  | nonelinholomu suutlinko   | COMMENTS       |   |               |  |                  |  | The second secon |                  |                  | Includes<br>HS/HSD | in the second of | water allians to combine the c | drys spira   |                      |                             | -        | RY)  | ı,                |
|--|------------------------|--|--|--|---|----------------|---|---------------|--|------------------|--|--|------------------|------------------|--------------------|--|--|--|----------------------|-----------------------------|----------|--|-------------------|
|  | ANALYSES REQUIRED      |  |  | IJ.  | 7   |                |   |               |  |                  |  |  |                  |                  |                    |  |  | LABORATORY INSTRUCTIONS COMMENTS POSSIBLE  | itis, i              | SCRIPTION                   |          | SAMPLE CONDITION UPON RECEIFF (FOR LABORATORY) TEMPERATURE 3:2 SAMPLE CONDITION:   | Dintact           |
| CHAIN-OF-CUSTODY RECORD  |                        |  | ^  | 35<br>35   |   |                | 文<br>数<br>2<br>2<br>2                   | う<br>(人<br>(人 | <b>小売</b> マランド マランド マランド マランド ストップ・ストップ・ストップ・ストップ・ストップ・ストップ・ストップ・ストップ・ | が<br>で<br>え<br>え | り<br>える<br>える                                  | S<br>表<br>文  | X<br>S<br>S<br>X | ふ<br>を<br>を<br>ろ | (S)<br>(S)<br>(S)  | の<br>る<br>え<br>ス   | <u> </u>   | KABO KATOKY  | Chacker of the chief | COMPOSITE DESCRIPTION       |          | SAMPLE CONDITED  | COOLER SEA        |
| CHAIN  | FURCHASE ORDER NO. CS. | 2  | 2018-19180<br>2018-19180   | MPLER SIGNATURE  | NOVER PORT OF THE | er NO.OF LEVEL | X<br>V<br>ā                             | X<br>N<br>S   | \<br>\<br>\<br>\<br>\<br>\<br>\  | ング               | X<br>0<br>0                                    | 3 2 K  | 7                | N<br>N<br>N      | 2                  | X V  | X N  | D IV (Stagastury)  | タグラグ                 | KE(E)VED &Y (Signature) /   |          | AECEIVED BY (Signature)  ***********************************   | X A Chinago       |
| e.   | *****                  | Annual or superior su | Z S  | Bright Switt   | AIRBIL  | DATE THAT      | \$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | 315k 0900     |  | 5                | 2<br>2<br>2<br>2<br>2<br>3<br>3<br>3<br>3<br>3 | 8 8 8  | 100 00 FE        |                  |                    |  |  |  |                      | ANTE NO RECEIVE             | Shy      | DATE PARTITION TO SECTION TO SECT | TIMER OF ACOMPANY |
| телен коман болов (ИА» до до до до до до да да да да да да до да да да да да да да да да да да да да | ,,,,,,                 |  | THE PLANT OF THE PROPERTY OF T | SAMPLER NAME  CANAL BILL  CANA | Ŕ   | SAMPLEST       | - 10003 - 2009<br>- 1009                | 2863-070      | 150-888  | 4 88 3 - 072,    | × 683-813                                      | 100000   | 2003-0-15        | 02025000         | 9 803 COT          | 8003-0-18  | TAN SOOD   | The state of the s | 19 N                 | NET OF WESTERN BY (S mater) | CENTRANY | BY (Signature)   | CGMFANY           |

White - Laboratory: Pink - Laboratory: Canary - Project File; Manila - Data Management



EMAX-SM02 Rev. 3 Appendix 2

### SAMPLE RECEIPT FORM 1

| ************************************** |  | <del></del>             | M A12 2   |
|--|--|-------------------------|---|
| Type of Delivery                       | Delivered By/Airbill   | ECN -                   | 461117  |
| EMAX Courier                           |  | Recepient               | <u> Higengo</u>                                     |
| Client Delivery                        |  | Date                    | <u> 1-31-06                                    </u> |
| Third Party                            |  | Time                    | 14:45   |
| W/A/A                                  | COC Inspection   | <del></del>             |   |
| 2 Client Name                          | Sampler Name   | Sampling                | Date/Time/Location                                  |
| Address                                | Courier Signature/Date/Time  | Analysis R              | equired   |
| Client PM/FC                           | □ T <u>∧</u> T   | Matrix                  |   |
| Tel #/Fax #                            | Sample ID  | Preservati              | /e (if any)   |
| Safety Issues 🔲 None                   | High Concentrations expected   | Superfund               |   |
| Comments: Rad Scree                    | ening Required   |                         |   |
|  |  |                         |   |
|  | Packaging Inspection   |                         |   |
| Container Cooler                       | Box  |                         |   |
| Condition Custody S                    | i i recent   | Damaged                 |   |
| Packaging 🔲 Bubble Pa                  | Styrofoam  | El Sufficient           |   |
| emperatures Decoler 1                  | Cooler 2   | Cooler 3                | Cooler 4  |
| Cooler 5                               | Cooler 6   |                         | Cooler 8  |
| Cooler 9                               | Cooler 10  |                         | Cooler 12   |
| Comments:                              |  | Secretary of the second | WOMEN IE  |
|  |  |                         |   |
| , LSCID , Clien                        | t ID / Discrepancy   |                         | orrective Action                                    |
| 473-1(2)                               | 10 m bled was  | 5 Foll                  | rw Coc  |
| ***                                    | 003-069 V= 0003  | -069                    |   |
|  | In COC:  |                         | <u> </u>  |
| 773-10                                 | Call time on coc   | I Ready                 |   |
| 7,72,10                                | 11:52 VS. 10:52 W  | 7702                    | <del>- 1/</del>                                     |
| ·····                                  | <u> </u>   |                         |   |
|  |  |                         |   |
|  | 100 Marie 100 Ma |                         |   |
|  |  |                         |   |
|  |  |                         |   |
|  |  |                         |   |
| *                                      |  |                         |   |
| *                                      |  |                         |   |
|  |  |                         |   |
|  |  |                         |   |
|  |  |                         |   |
| SCID: Lab Sample Container             |  |                         |   |
| SCID: Lab Sample Container             | ID SRF Ce  | wha PM                  | Dald  |



### REPORTING CONVENTIONS

### DATA QUALIFIERS:

| Lab Qualifier | AFCEE Qualifier | Description  |
|---------------|-----------------|--|
| j             |                 | Indicates that the analyte is positively identified and the result is less than RL but greater than MDL.       |
| N             |                 | Indicates presumptive evidence of a compound.  |
| В             | В               | Indicates that the analyte is found in the associated method blank as well as in the sample at above QC level. |
| E             | J               | Indicates that the result is above the maximum calibration range.  |
| *             | *               | Out of QC limit.   |

Note: The above qualifiers are used to flag the results unless the project requires a different set of qualification criteria.

## ACRONYMS AND ABBREVIATIONS:

| Ì                   | CRDL | Contract Required Detection Limit |  |  |  |
|---------------------|------|-----------------------------------|--|--|--|
| 0.00000             | RL   | Reporting Limit                   |  |  |  |
| 000.00000           | MRL  | Method Reporting Limit            |  |  |  |
| · Manage            | PQL  | Practical Quantitation Limit      |  |  |  |
| Amana               | NDL, | Method Detection Limit            |  |  |  |
| Control of the last | DO   | Diluted out                       |  |  |  |
|                     |      |                                   |  |  |  |

#### DATES

The date and time information for leaching and preparation reflect the beginning date and time of the procedure unless the method, protocol, or project specifically requires otherwise.



### LABORATORY REPORT FOR

SES-TECH

CAMP PENDLETON, UST SITE 1441

METHOD 3550B/8015B
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

SDG#: 06A173



#### **CASE NARRATIVE**

CLIENT:

SES-TECH

PROJECT:

**CAMP PENDLETON, UST SITE 1441** 

SDG:

06A173

## METHOD 3550B/8015B TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

Eleven (11) soil samples were received on 01/31/06 for Total Petroleum Hydrocarbons by Extraction analysis by Method 3550B/8015B in accordance with SW846 3<sup>RD</sup> Edition.

#### 1. Holding Time

Analytical holding time was met. Extraction was performed and completed on 02/01/06.

#### 2. Calibration

Initial calibration was seven points for Diesel. %RSDs were within 20%. Continuing calibrations were carried out at 12-hour intervals and all recoveries were within 85-115%.

#### 3. Method Blank

Method blank was free of contamination at half of the reporting limit.

#### 4. Surrogate Recovery

Surrogate recovery in sample A173-01 could not be evaluated due to dilution. All others met the QC criteria.

#### 5. Lab Control Sample/Lab Control Sample Duplicate

All recoveries were within QC limits.

#### 6. Matrix Spike/Matrix Spike Duplicate

Sample A173-09 was spiked. Recoveries were within QC limits.

#### 7. Sample Analysis

Samples were analyzed according to the prescribed QC procedures. All criteria were met with the aforementioned exception. Sample results were quantitated from C10 to C24 using Diesel (C10-C24) calibration factor.

Samples A173-01, -03, -04, -06, -09 and -11 displayed diesel-like fuel pattern.

Sample A173-02 displayed motor oil-like fuel pattern.



LAB CHRONICLE TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

: SES-TECH : CAMP PENDLETON, UST SITE 1441

client Project

SDG NO. : 06A173 Instrument ID : GCT050

|      |   |             |             | Sos                                     |               |                       |                   |         | -                        |
|------|---|-------------|-------------|---|---------------|-----------------------|-------------------|---------|--------------------------|
|      | Laboratory                              | Dilution    | 3~8         | Analysis                                | Extraction    | Sample                | Calibration Prep. | n Prep. |                          |
| ~,   | Sample 10                               | Factor      | Moist       | Datelime                                | DateTime      | Data FN               | Data FN           | Batch   | Wotes                    |
| -    | 1 | 1 2 2 2 2 2 | 6<br>1<br>1 | 6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 |               | }<br>t<br>t<br>t<br>t | L<br>F<br>5<br>5  | f<br>   |                          |
| hd   | 05800188                                | <b>-</b>    | Z           | 02/01/0619:04                           | 02/01/0612:00 | TA31042A              | TA31038A          | DSB0018 | Method Blank             |
| Lad  | DSBOOTSE                                | <u>-</u> -  | <£          | 02/01/0619:46                           | 02/01/0612:00 | 1431043A              | TA31038A          | DSB001S | Lab Centrol Sample (LCS) |
| Las  | 280018C                                 |             | A.A         | 02/01/0620:28                           | 02/01/0612:00 | TA31044A              | TA31038A /        | DSB001S | LCS Duplicate            |
| -44, | A173-011                                | 10          | 7.0         | 02/02/0608:21                           | 02/01/0612:00 | TA31061A              | TA31053A          | DSB001S | Diluted Sample           |
|      | 4173-02                                 | ę           | 7.8         | 02/02/0601:22                           | 02/01/0612:00 | TA31051A              | TA31038A          | DSB001S | Field Sample             |
| -    | R173-03                                 | <b>(-</b>   | 0.9         | 02/01/0621:10                           | 02/01/0612:00 | TA31045A              | TA31038A          | DSB001S | Field Sample             |
|      | A173-04                                 | <b>←</b>    | 2.0         | 02/01/0621:52                           | 02/01/0612:00 | TA31046A              | TA31038A          | DSB001S | Field Sample             |
|      | A173-05                                 | ţ           | 7.5         | 02/01/0622:34                           | 02/01/0612:00 | TA31047A              | TA31038A          | DSBOOTS | Field Sample             |
|      | 4173-06                                 | *~          | 7. 7        | 02/01/0623:16                           | 02/01/0612:00 | TA31048A              | TA31038A          | DSB001S | Field Sample             |
|      | R173-07                                 | <b>~</b>    | 4,4         | 02/01/0623:58                           | 02/01/0612:00 | TA31049A              | TA31038A          | 0580018 | Field Sample             |
| _    | 4173-08                                 | <b>—</b>    | 6.9         | 02/02/0600:40                           | 02/01/0612:00 | TA31050A              | TA31038A          | 0580015 | Field Sample             |
|      | 4173-09                                 | ₩-          | 23          | 02/02/0604:10                           | 02/01/0612:00 | TA31055A              | TA31053A          | DSB001S | Field Sample             |
|      | A173-10                                 | *           | 4.5         | 02/02/0606:15                           | 02/01/0612:00 | TA31058A              | TA31053A          | 0580015 | Field Sample             |
| -    | A173-11                                 | <u></u>     | N.          | 02/02/0606:57                           | 02/01/0612:00 | TA31059A              | TA31053A          | DSB001s | Field Sample             |
| -    | A173-09M                                |             | 2           | 02/02/0604:52                           | 02/01/0612:00 | TA31056A              | TA31053A          | 0580015 | Matrix Spike Sample (MS) |
|      | A173-09S                                | ş           | 3,2         | 02/02/0605:33                           | 02/01/0612:00 | TA31057A              | TA31053A          | D58001S | MS Duplicate (MSD)       |
|      |   |             |             |   |               |                       |                   |         |                          |

FW - Filename % Moist - Percent Noisture



# SAMPLE RESULTS



#### METHOD 3550B/8015B TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

Client : SES-TECH Date Collected: 01/31/06

Client: SES-TECH
Project: CAMP PENDLETON, UST SITE 1441
Batch No.: 06A173
Sample: ID: 0003-069
Lab Samp ID: A173-017
Lab File ID: TA31061A
EXT Btch: ID: DSB001S Date Received: 01/31/06
Date Extracted: 02/01/06 12:00
Date Analyzed: 02/02/06 08:21
Dilution Factor: 10

Matrix : SOIL
% Moisture : 7.0
Instrument 1D : GCT050 Calib. Ref.: TA31053A 

MOL RESULTS RL (mg/kg) PARAMETERS (mg/kg) (mg/kg)\_\_\_\_\_ 3500 / 54 DIESEL 110

SURROGATE PARAMETERS % RECOVERY QC LIMIT ................. ------HEXACOSANE DO 65 - 135

RL : Reporting Limit Parameter H-C Range C10-C24 Diesel

DO ; Diluted Out



#### METHOD 35508/80158 TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

. 还你们以可能因此就可能是是这个人,我们就是我们就是我们的人的人的人的人的人的人的人的,我们就是这种人的,你就是这个人的,我们就是这个人的,我们就是这个人的人,

Client : SES-TECH
Project : CAMP PENDLETON, UST SITE 1441
Batch No. : 06A173
Sample ID: 0003-070
Lab Samp ID: A173-02
Lab File ID: TA31051A Date Collected: 01/31/06 Date Received: 01/31/06 Date Extracted: 02/01/06 12:00

Date Analyzed: 02/02/06 01:22 Dilution Factor: 1 Matrix : SDIL Ext Btch ID: DSB001\$ % Moisture : 7.8 Calib. Ref.: TA31038A Instrument ID : GCT050

RESULTS RL MOL PARAMETERS (mg/kg) (mg/kg) (mg/kg) DIESEL 28 11 5.4

SURROGATE PARAMETERS % RECOVERY QC LIMIT ...... 65~135 HEXACOSANE

RL : Reporting Limit Parameter H-C Range Diesel C10-C24



#### METHOD 3550B/8015B TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

Client : SES-TECH Date Collected: 01/31/06 Project : CAMP PENDLETON, UST SITE 1441 Batch No. : 06A173

Date Received: 01/31/06
Date Extracted: 02/01/06 12:00
Date Analyzed: 02/01/06 21:10
Dilution Factor: 1 Sample ID: 0003-071 Lab Samp ID: A173-03

Matrix : SOIL % Moisture : 6.0 Lab File ID: TA31045A Ext 8tch (D: DSB001\$ Calib. Ref.: TA31038A Instrument ID : GCT050

RESULTS MDL (mg/kg) (mg/kg) PARAMETERS (mg/kg) DIESEL 12 11 5.3

SURROGATE PARAMETERS QC LIMIT % RECOVERY -----\*\*\*\*\*\*\*\*\* HEXACOSANE 94 65-135

RL : Reporting Limit
Parameter H-C Range Diesel C10-C24



#### METHOD 35508/80158 TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

Client : SES-TECH
Project : CAMP PENDLETON, UST SITE 1441
Batch No. : 06A173
Sample 10: 0003-072 Date Collected: 01/31/06 Date Received: 01/31/06

Date Extracted: 02/01/06 12:00
Date Analyzed: 02/01/06 21:52 Dilution factor: 1 Lab Samp ID: A173-04 : SOIL Lab File 10: TA31046A Matrix

Ext Btch ID: DSB001S % Moisture : 2.0 Instrument ID : GCT050 Calib. Ref.: TA31038A

我说我就是我们的我们就是我们的,我们们就是我们的,我们就是我们的人,我们就是我们的人们的,我们就是我们的人们的人,我们也是我们的人们的人,我们就会会会会会会会会 我说我就是我们就是我们就是我们的,我们就是我们的人,我们就是我们的人们的人们就是我们的人们的人们是我们的人们是我们的人们是我们的人们是我们的人们是我们的人们是我

RESULTS MOL RŁ. PARAMETERS (mg/kg) (mg/kg) (mg/kg) DIESEL 290 10 5.1

SURROGATE PARAMETERS % RECOVERY QC LIMIT HEXACOSANE 102 65-135

RL : Reporting Limit
Parameter H-C Range C10-C24 Diesel



## METHOD 35508/80158 TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

Client : SES-TECH Date Collected: 01/31/06
Project : CAMP PENDLETON, UST SITE 1441 Date Received: 01/31/06
Batch No. : 06A173 Date Extracted: 02/01/06 12:08
Sample ID: 0003-073 Date Analyzed: 02/01/06 22:34

Lab Samp ID: A173-05 Dilution Factor: 1
Lab File ID: TA31047A Matrix : SOIL
Ext Btch ID: DSB001S % Moisture : 5.4
Calib. Ref.: TA31038A Instrument ID : GCT050

 PARAMETERS
 RESULTS
 RL
 MDL

 01ESEL
 ND
 11
 5.3

SURROGATE PARAMETERS % RECOVERY QC LIMIT
HEXACOSANE 85 65-135

RL: Reporting Limit Parameter H-C Range Diesel C10-C24



#### METHOD 3550B/8015B TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

Date Collected: 01/31/06
Date Received: 01/31/06
Date Extracted: 02/01/06 12:00
Date Analyzed: 02/01/06 23:16
Dilution Factor: 1

Client : SES-TECH
Project : CAMP PENDLETON, UST SITE 1441
Batch No. : 06A173
Sample ID: 0003-074
Lab Samp ID: A173-06
Lab Fife ID: TA31048A
Evr Rich ID: DSE0015 Matrix : SOIL % Moisture : 4.4 Ext Btch ID: DSB001S Calib. Ref.: TA31038A Instrument ID : GCTOSO

MOL RESULTS PARAMETERS (mg/kg) (mg/kg) (mg/kg) 5.2 DIESEL 1800 10

% RECOVERY SURROGATE PARAMETERS QC LIMIT \_\_\_\_\_\_ . . . . . . . . . HEXACOSANE 107 65-135

RL : Reporting Limit Parameter H-C Range C10~C24 Diesel



### METHOD 35508/80158 TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

**,你你们我就们们到外们们们们们就想到我们还就是你们还就没有你的我们就没有你就没有这个我们就会会会看你就你会会还是我们的人,我们就不是这个不是,你不是这个人,我们就没有我们的我们的,我们就不是我们的** 

Client : SES-TECH Date Collected: 01/31/06
Project : CAMP PENDLETON, UST SITE 1441 Date Received: 01/31/06
Batch No. : 06A173 Date Extracted: 02/01/06 1

 Batch No. : 06A173
 Date Extracted: 02/01/06 12:00

 Sample ID: 0003-075
 Date Analyzed: 02/01/06 23:58

 Lab Samp ID: A173-07
 Dilution Factor: 1

Lab Samp 10: A173-07 Dilution Factor: 1
Lab File 1D: TA31049A Matrix : SOIL
Ext 8tch 1D: DSB0018 % Moisture : 4.1
Calib. Ref.: TA31038A Instrument 1D : GCT050

Catch, Ref.: NATIONA INSTRUMENTAL ID : GC1030

 PARAMETERS
 RESULTS
 RL
 MDL

 DIESEL
 ND
 10
 5.2

SURROGATE PARAMETERS % RECOVERY OC LIMIT
HEXACOSANE 95 65-135

RL: Reporting Limit
Parameter H-C Range
Diesel C10-C24



Page 1 of 1

#### METHOD 8015 by GC/FID EMAX Analytical Laboratories, Inc.

: c:\ezchrom\chrom\ta31\ta31.049 File : c:\ezchrom\methods\ds50a31.met -Method

: 06A173-07 Sample ID

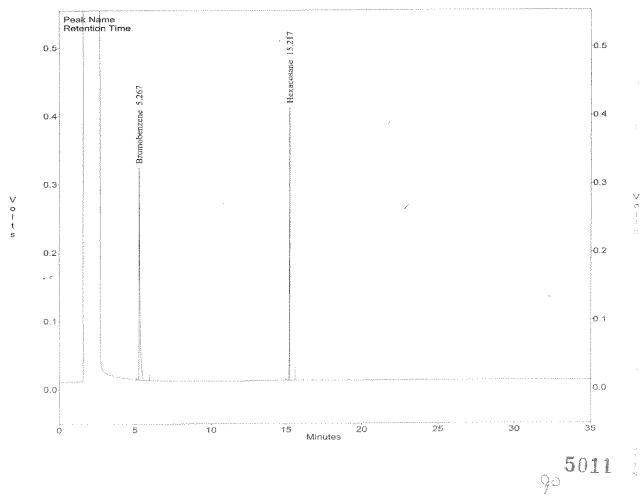
: Feb 01, 2006 23:58:25 : Feb 02, 2006 10:36:12 Acquired Printed

: JANE User

#### Channel A Results

| #   | Peak Name       | Ret.Time(Min) | Ar | 'ea     | Ave. CF | RSTD Conc. (ppm) |
|-----|-----------------|---------------|----|---------|---------|------------------|
| ~ - |                 |               |    |         |         |                  |
| 1   | Bromobenzene    | 5,267         | •  | 1216715 | 14214.3 | 85.6             |
| 2   | Hexacosane      | 15.217        | ** | 685279  | 28984.5 | 23.6             |
| G1  | Diesel (TOTAL)  |               |    | 0       | 26500.7 | . 0.0            |
| G2  | Diesel(Cl0-C24) |               |    | 0       | 26460.6 | 0.0              |
| 'G3 | Diesel(Cl0-C28) |               |    | 0       | 26478.8 | 0.0              |

#### c:\ezchrom\chrom\ta31\ta31.049 -- Channel A





#### METHOD 3550B/8015B TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

Client : SES-TECH Date Collected: 01/31/06 Date Received: 01/31/06

Project : CAMP PENDLETON, UST SITE 1441 Batch No. : 06A173 Sample ID: 0003-076 Date Extracted: 02/01/06 12:00 Date Analyzed: 02/02/06 00:40

Lab Samp ID: A173-08 Dilution Factor: 1 Matrix : SOIL % Moisture : 6.9 Instrument ID : GCT050 Lab File ID: TA31050A Ext 8tch ID: DSB001S Calib. Ref.: TA31038A

RESULTS MOL PARAMETERS (mg/kg) (mg/kg) (mg/kg) DIESEL 5.4 ND

SURROGATE PARAMETERS % RECOVERY QC LIMIT HEXACOSANE 98 65-135

RL : Reporting Limit Parameter H-C Range C10-C24



## METHOD 35508/80158 TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

Client : SES-TECH Date Collected: 01/31/06
Project : CAMP PENDLETON, UST SITE 1441 Date Received: 01/31/06
Batch No. : 06A173 Date Extracted: 02/01/06 12:00
Sample ID: 0003-077 Date Analyzed: 02/02/06 04:10

Sample ID: 0003-077 Date Analyzed: 02/02/06
Lab Samp ID: A173-09 Dilution Factor: 1
Lab File ID: TA31055A Matrix : SOIL
Ext Btch ID: DSB001S % Moisture : 3.2

Calib. Ref.: TA31053A Instrument ID : GCT050

 PARAMETERS
 RESULTS
 RL
 MDL

 parameters
 (mg/kg)
 (mg/kg)
 (mg/kg)

 plesel
 1300
 10
 5.2

SURROGATE PARAMETERS % RECOVERY QC LIMIT
HEXACOSANE 97 65-135

RL : Reporting Limit Parameter H-C Range Diesel C10-C24



## METHOD 3550B/8015B TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

Client : SES-TECH Date Collected: 01/31/06
Project : CAMP PENDLETON, UST SITE 1441 Date Received: 01/31/06
Batch No. : 06A173 Date Extracted: 02/01/06 12:00
Sample ID: 0003-078 Date Analyzed: 02/02/06 06:15
Lab Samp ID: A173-10 Dilution Factor: 1
Lab File ID: TA31058A Matrix : SOIL

Lab File ID: TA31058A Matrix : SOIL
Ext Btch ID: DSB001S % Moisture : 2.4
Calib. Ref.: TA31053A Instrument ID : GCT050

 PARAMETERS
 RESULTS
 RL
 MDL

 01ESEL
 ND
 10
 5.1

SURROGATE PARAMETERS % RECOVERY QC LIMIT
HEXACOSANE 102 65-135

RL: Reporting Limit
Parameter H-C Range
Diesel C10-C24



#### METHOD 3550B/8015B TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

Client : SES-TECH
Project : CAMP PENDLETON, UST SITE 1441
Batch No. : 06A173
Sample ID: 0003-079
Lab Samp ID: A173-11 Date Collected: 01/31/06 Date Received: 01/31/06

Date Extracted: 02/01/06 12:00 Date Analyzed: 02/02/06 06:57 Dilution Factor: 1

Lab File ID: TA31059A Matrix : SOIL Ext Btch ID: DSB001S % Moisture : 5.3 Calib. Ref.: TA31053A Instrument ID : GCT050 

RESULTS RL MDL PARAMETERS (mg/kg) (mg/kg) (mg/kg) 5.3

DIESEL 340 4 SURROGATE PARAMETERS % RECOVERY QC LIMIT

-----65-135 HEXACOSANE 104

RL : Reporting Limit Parameter H-C Range Diesel C10-C24



# QC SUMMARIES



## METHOD 3550B/8015B TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

Client : SES-TECH Date Collected: NA

Date Received: 02/01/06 Date Extracted: 02/01/06 12:00 Date Analyzed: 02/01/06 19:04

Project : CAMP PENDLETON, UST SITE 1441
Batch No. : O6A173
Sample ID: MBLK1S
Lab Samp ID: DSB001SB Dilution Factor: 1 Matrix : SOIL % Moisture : NA Lab File ID: TA3104ZA Ext Btch ID: DSB001S Instrument ID : GCT050 Calib. Ref.: TA31038A

RESULTS MOL PARAMETERS (mg/kg) (mg/kg) (mg/kg) - ^ - - - - - - - -DIESEL 5 ND 10

SURROGATE PARAMETERS % RECOVERY QC LIMIT HEXACOSANE 65-135 103

RL : Reporting Limit Parameter H-C Range Dieset C10-C24



#### EMAX QUALITY CONTROL DATA LCS/LCD ANALYSIS

CLIENT:

SES-TECH

PROJECT:

CAMP PENDLETON, UST SITE 1441

SATCH NO.: 06A173

METHOD: METHOD 35508/80158

MATRIX:

DILUTION FACTOR: 1

MBLK1S

SAMPLE ID: LAB SAMP ID:

LAS FILE ID:

DSB001SB DSB001SL TA31042A TA31043A

DSB001SC

TA31044A 02/01/0612:00

02/01/0612:00

DATE COLLECTED: NA

% MOISTURE:

DATE EXTRACTED: DATE ANALYZED: PREP. BATCH:

02/01/0612:00 02/01/0619:04 DSB001S

02/01/0619:46 02/01/0620:28 DSB001s

DATE RECEIVED: 02/01/06

500

CALIB. REF:

TA31038A

DSB001s TA31038A TA31038A

ACCESSION:

PARAMETER Dieset

BLNK RSLT SPIKE AMT BS RSLT (mg/kg) (mg/kg)

SPIKE AMT (mg/kg) % REC (mg/kg) 98

BSD RSLT BSD (mg/kg) % REC 513

RPD (%) 103

QC LIMIT MAX RPD (%) (%)

5 65-135

ND 500 489

% REC

35

SURROGATE PARAMETER Hexacosane

SPIKE AMT BS RSLT SPIKE AMT BSD RSLT 88 % REC (mg/kg) (mg/kg) (mg/kg) 25 25.4 101

26.8 107

(mg/kg)

65-135

QC LIMIT

(%)



#### EMAX QUALITY CONTROL DATA MS/MSD ANALYSIS

CLIENT:

SES-TECH

PROJECT:

CAMP PENDLETON, UST SITE 1441

BATCH NO.:

06A173

METHOD:

METHOD 35508/80158

MATRIX:

% MOISTURE:

3.2

DILUTION FACTOR: 1 SAMPLE ID: LAS SAMP ID:

0003-077 A173-09

A173-09M

A173-098

LAB FILE ID: DATE ANALYZED:

02/02/0604:10

TA31056A TA31057A DATE EXTRACTED: 02/01/0612:00 02/01/0612:00 02/01/0612:00 02/02/0604:52

02/02/0605:33

DATE COLLECTED: 01/31/06 DATE RECEIVED: 01/31/06

PREP. BATCH: CALIB. REF:

DSB001s

0880018

DS8001s

MS

109

% REC

TA31053A

TA31055A

TA31053A

TA31053A

ACCESSION:

PARAMETER

Hexacosane

SURROGATE PARAMETER

SMPL RSLT SPIKE AMT MS RSLT (mg/kg) (mg/kg) (mg/kg)

MS RSET

(mg/kg)

28.1

MS SPIKE AMT % REC (mg/kg) 129

MSD RSLT

(mg/kg)

MSD RSLT MSD (mg/kg) % REC 2000 128

RPD GC LIMIT MAX RPD (%)

(%) (%) 35

Diesel

1340

SPIKE AMT

(mg/kg)

25.8

2000

SPIKE AMT

(mg/kg)

517

0

65 - 135

QC LIMIT

MSD % REC (%)

109

65~135

- - - 5019



# QC DATA



File : c:\ezchrom\chrom\ta31\ta31.042
Method : c:\ezchrom\methods\ds50a31.met <

Sample ID : DSB001SB

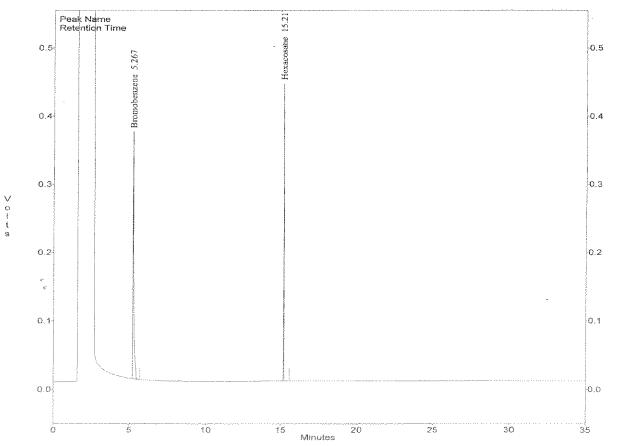
Acquired : Feb 01, 2006 19:04:01 Printed : Feb 02, 2006 10:30:39

User : JANE

#### Channel A Results

| #   | Peak Name       | Ret.Time(Min)  | Area      | Ave. CF | ESTD Conc. (ppm) |
|-----|-----------------|--|-----------|---------|------------------|
|     |                 | Are this time who are not not not seen also were used and seen |           |         |                  |
| 1   | Bromobenzene    | 5.267  | . 1379711 | 14214.3 | 97.1             |
| 2   | Hexacosane      | 15.217   | 746008    | 28984.5 | 25.7             |
| Gl  | Diesel (TOTAL)  |  | 0         | 26500.7 | 0.0              |
| G2  | Diesel(C10-C24) |  | 0         | 26460.6 | - 0.0            |
| 'G3 | Diesel(ClO-C28) |  | Ò         | 26478.8 | - 0.0            |

#### c:\ezchrom\chrom\ta31\ta31.042 -- Channel A





: c:\ezchrom\chrom\ta31\ta31.043 File : c:\ezchrom\methods\ds50a31.met Method

Sample ID : DSB001SL

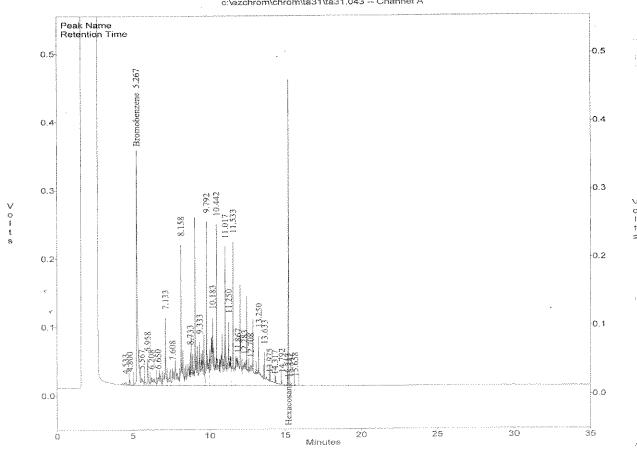
: Feb 01, 2006 19:46:07 : Feb 02, 2006 10:31:03 Acquired Printed

User : JANE

#### Channel A Results

| #   | Peak Name       | Ret.Time(Min) | Area     | Ave. CF | ESTD Conc | . (ppm) |
|-----|-----------------|---------------|----------|---------|-----------|---------|
| ~ ~ |                 | ~~~~~~~~~     |          |         |           |         |
| 3   | Bromobenzene    | 5.267         | 1379659  | 14214.3 | -         | 97.1    |
| 27  | Hexacosane      | 15.217        | 735127   | 28984.5 | · Ma      | 25.4    |
| G1  | Diesel (TOTAL)  |               | 13073336 | 26500.7 | ě         | 493.3   |
| G2  | Diesel(ClO-C24) |               | 12931338 | 26460.6 | *         | 488.7   |
| G3  | Diesel(C10-C28) |               | 12978767 | 26478.8 | ~         | 490.2   |

#### c:\ezchrom\chrom\ta31\ta31.043 -- Channel A





File : c:\ezchrom\chrom\ta31\ta31.044
Method : c:\ezchrom\methods\ds50a31.met

Sample ID : DSB001SC

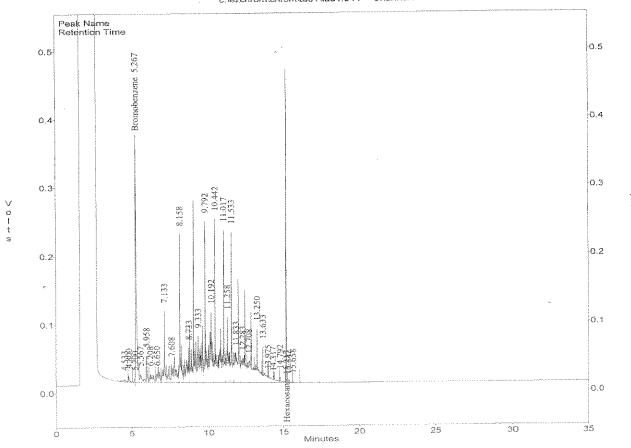
Acquired : Feb 01, 2006 20:28:14 Printed : Feb 02, 2006 10:31:39

User : JANE

#### Channel A Results

| # | Peak Name   | Ret.Time(Min) | Area      | Ave. CF | ESTD Conc. (ppm) |
|---|---|---------------|-----------|---------|------------------|
|   | AND AND AND THE REAL PROPERTY AND AND AND AND AND AND AND AND AND AND |               |           |         |                  |
| а | Bromobenzene  | 5.267         | - 1412557 | 14214.3 | . 99.4           |
|   | Hexacosane  | 15,217        | - 777972  | 28984.5 | 26.8             |
|   | Diesel (TOTAL)  |               | 13713230  | 26500.7 | 517.5            |
| _ | Diesel(C10-C24)   |               | 13571386  | 26460.6 | - 512.9          |
|   | Diesel (C10-C28)  |               | 13623372  | 26478.8 | 514.5            |

#### c:\ezchrom\chrom\ta31\ta31.044 -- Channel A





Page 1 of 1

# METHOD 8015 by GC/FID EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ta31\ta31.056
Method : c:\ezchrom\methods\ds50a31.met

Sample ID : 06A173-09M

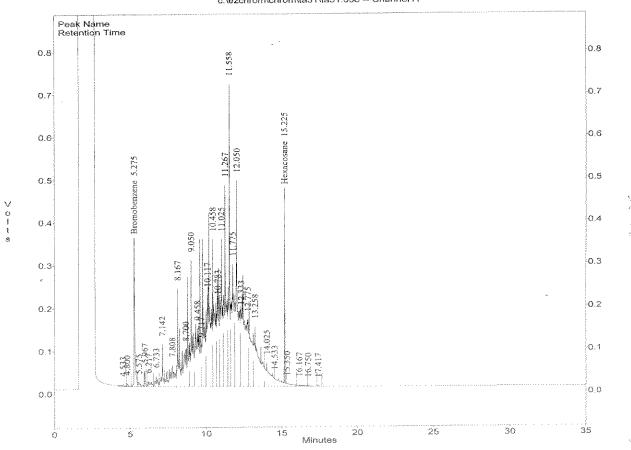
Acquired : Feb 02, 2006 04:52:09 Printed : Feb 02, 2006 10:46:23

User : JANE

#### Channel A Results

| 释  | Peak Name       | Ret.Time(Min) | Area     | Ave. CF | ESTD Conc. (ppm) |
|----|-----------------|---------------|----------|---------|------------------|
|    |                 |               |          |         |                  |
| 3  | Bromobenzene    | 5.275         | 1345322  | 14214.3 | 94.6             |
| 28 | Hexacosane      | 15.225        | 787386   | 28984.5 | 27.2             |
| G1 | Diesel (TOTAL)  |               | 51980144 | 26500.7 | 1961.5           |
|    | Diesel(ClO-C24) |               | 51296764 | 26460.6 | _ 1938.6         |
| G3 | Diesel(Clo-C28) |               | 51870912 | 26478.8 | 1959.0           |

#### c:\ezchrom\chrom\ta31\ta31.056 -- Channel A



5024



Page 1 of 1

# METHOD 8015 by GC/FID EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ta31\ta31.057
Method : c:\ezchrom\methods\ds50a31.met

Sample ID : 06A173-09S

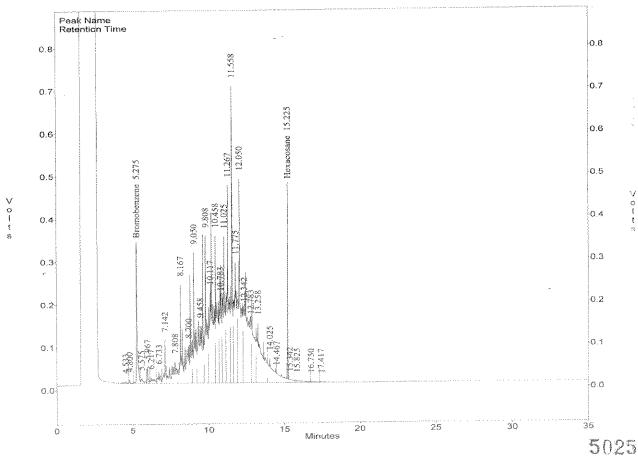
Acquired : Feb 02, 2006 05:33:58 Printed : Feb 02, 2006 10:47:10

User : JANE

#### Channel A Results

| #   | Peak Name       | Ret.Time(Min) | Area       | Ave. CF   | ESTD Conc. (ppm) |
|-----|-----------------|---------------|------------|-----------|------------------|
| -   | ******          | ~ ~           |            |           |                  |
| 3   | Bromobenzene    | 5.275         | 1340121    | 14214.3-  | 94.3             |
| 2.8 | Hexacosane      | 15.225        | 792555     | 28984.5 - |                  |
|     | Diesel(TOTAL)   |               | 52029848   | 26500.7 . | 1963.3           |
|     | Diesel(C10-C24) |               | 51175992   | 26460.6   | 1934.0           |
|     |                 |               | 51895720   | 26478.8   | . 1959.9         |
| ಆತ  | Diesel(Cl0-C28) |               | 3.0000 720 | 22 0 21   |                  |

#### c:\ezchrom\chrom\ta31\ta31.057 -- Channel A



JD 00,000 SY



# INITIAL CALIBRATION



#### INITIAL CALIBRATION METHOD M8015

Lab Name : EMAX Ind instrument ID : GCT050 | GC Column : DB-5 | Datetime: TA31009A 01/31/06 19:57 | LFID & Datetime: TA31004A 01/31/06 17:08 | LFID & Datetime: TA31005A 01/31/06 17:08 | LFID & Datetime: TA31005A 01/31/06 17:51 | LFID & Datetime: TA31005A 01/31/06 17:51 | LFID & Datetime: TA31007A 01/31/06 18:33 | LFID & Datetime: TA31007A 01/31/06 18:33 | LFID & Datetime: TA31008A 01/31/06 19:15 | CONC UNIT: | ppm

CONC UNIT: ppm

|                               | CONC         |                | CALIBR         | ATION FAC        | CTORS (AF | REA or HEI         | GHT)/UNII   | ,              |           |      |
|-------------------------------|--------------|----------------|----------------|------------------|-----------|--------------------|-------------|----------------|-----------|------|
| COMPOUND                      | Х            | 1.00X          | 2.00x          | 10.00X           | 20.00X    | 100.00X            | 300.00X     | 600.00x        | MEAN      | %RSD |
|                               | *******      | ******         |                | 24020            | - 24405   | 23350              | ✓ 24931     | 25894          | - 26500.7 | 15 0 |
| DIESEL(TOTAL) DIESEL(C10-C24) | 5.00<br>5.00 | 29695<br>29695 |                | 21928<br>- 21896 |           | ~ 23330<br>~ 23330 | - 24845     |                |           |      |
| DIESEL(C10-C28)               | 5.00         | / 29695        |                | z 21928          | J 26105   | - 23350            | ~ 24872     | <b>~</b> 25800 | ~26478.8  | 15.0 |
|                               |              | A A A          | 4 000          | 3 600            | 3.00x     | 5.00X              | 7.00X       | 11.00X         | MEAN      | %RSD |
| SURROGATE                     | Χ            | 0.50x          | 1.00x          | 2.00x            | J.UUA     | J.OOA              | , , , , , , | ========       | FEEEEEEE  | ==== |
| BROMOBENZENE                  | 20.00        | -1             | 13517          | <b>14356</b>     | 15142     | <b>~13341</b>      | - 14495     | -14436         | 14214.3   | 4.7  |
| HEXACOSANE                    | 5.00         | -1             | <b>∠2958</b> 0 | - 2 <b>9</b> 371 | ~ 31178   | × 27128            | - 28544     | - 28106        | J 28984.5 | 4.8  |
|                               | l            |                |                |                  |           |                    |             |                | l         |      |

DS50A31.MET

1/96

FORM VI DIESEL -2



#### INITIAL CALIBRATION METHOD M8015

Lab Name : EMAX Inc

Lab Name : EMAX Inc Instrument ID : GCT050 GC Column : DB-5 Column size ID : 30MM0.25MM LFID & Datetime: TA31009A 01/31/06 19:57 LFID & Datetime: TA31004A 01/31/06 16:26 LFID & Datetime: TA31005A 01/31/06 17:08 LFID & Datetime: TA31005A 01/31/06 17:51 LFID & Datetime: TA31006A 01/31/06 17:51 LFID & Datetime: TA31007A 01/31/06 18:33 LFID & Datetime: TA31008A 01/31/06 19:15

|                 |        |        | RT OF  | STANDARI | S (MI) | ¥)      |        | MEAN   | RT W   | NDOW    | RTWINDOW |
|-----------------|--------|--------|--------|----------|--------|---------|--------|--------|--------|---------|----------|
| COMPOUND        | 1.0X   | 2.0X   | 10.0X  | 20.0X    | 100.0X | 300.0X  | 600.0X | RT     | FROM   | TO      | WIDTH    |
|                 | ESECTE | =====  |        | ======   | munume | ******* | aarraa | *****  | ====== | ####### | *****    |
| DIESEL(TOTAL)   | 0.000  | 0.000  | 0.000  | 0.000    | 0.000  | 0.000   | 0.000  | 0.000  | 0.000  | 0.000   | 1.500    |
| D(ESEL(C10-C24) | 0.000  | 0.000  | 0.000  | 0.000    | 0.000  | 0.000   | 0.000  | 0.000  | 0.000  | 0.000   | 1.500    |
| DIESEL(C10-C28) | 0.000  | 0.000  | 0.000  | 0.000    | 0.000  | 0.000   | 0.000  | 0.000  | 0.000  | 0.000   | 1,500    |
| SURROGATE       | 0.5x   | 1.0x   | 2.0x   | 3.0x     | 5.0x   | 7.0x    | 11.0X  | RT     | FROM   | 70      | WIDTH    |
|                 | =====  |        | ====== |          | ====== |         | =====  | ====== |        |         | =======  |
| BROMOBENZENE    | -1     | 5.267  | 5.267  | 5.267    | 5.275  | 5.275   | 5.283  | 5.272  | 5.185  | 5.359   | 0.087    |
| HEXACOSANE      | -1     | 15.217 | 15.217 | 15.217   | 15,225 | 15.233  | 15.233 | 15.224 | 14.891 | 15.557  | 0.333    |
|                 |        |        |        |          |        |         |        |        |        |         |          |

DS50A31.MET

FORM VI DIESEL -1

1/96



File : c:\ezchrom\chrom\ta31\ta31.009
Method : c:\ezchrom\methods\ds50a31.met

Sample ID : DS50A3101 5PPM

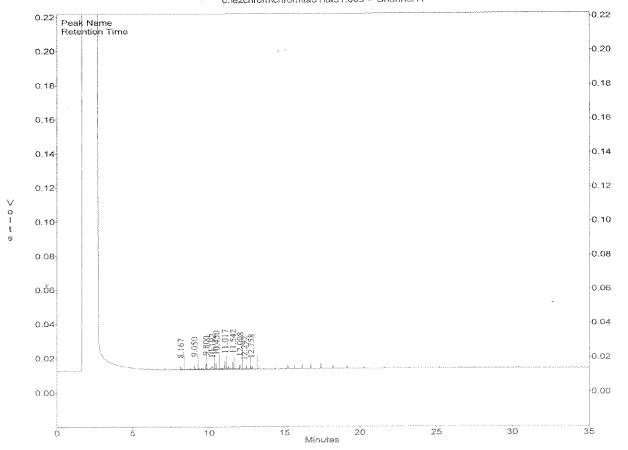
Acquired : Jan 31, 2006 19:57:35 Printed : Feb 01, 2006 09:34:38

User : JANE

#### Channel A Results

| #  | Peak Name       | Ret.Time(Min) | Area   | Ave. CF | ESTD Conc. (ppm)   |
|----|-----------------|---------------|--------|---------|--|
|    |                 |               |        |         | and the last two last last last last last last last last |
|    | Bromobenzene    | 5.283         | 0      | 0.0     | 0.0  |
|    | Hexacosane      | 15.233        | 0      | 0.0     | 0.0  |
| Gl | Diesel (TOTAL)  |               | 148474 | 26500.7 | 5.0  |
| G2 | Diesel(C10-C24) |               | 148474 | 26460.6 | 5.0  |
| G3 | Diesel(C10-C28) |               | 148474 | 26478.8 | 5.0  |

#### c:\ezchrom\chrom\ta31\ta31.009 -- Channel A



02/01/00



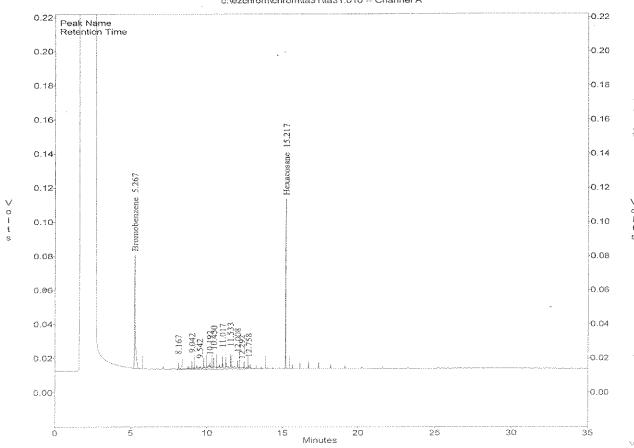
File : c:\ezchrom\chrom\ta31\ta31.010
Method : c:\ezchrom\methods\ds50a31.met

User : JANE

#### Channel A Results

| #  | Peak Name       | Ret.Time(Min) | Area   | Ave. CF | ESTD Conc. (ppm) |
|----|-----------------|---------------|--------|---------|------------------|
|    |                 |               |        |         |                  |
| ĺ  | Bromobenzene    | 5.267         | 270334 | 14214.3 | 20.0             |
| 12 | Hexacosane      | 15.217        | 147901 | 28984.5 | 5.0              |
| Gl | Diesel (TOTAL)  |               | 336030 | 26500.7 | 10.0             |
| G2 | Diesel(ClO-C24) |               | 336030 | 26460.6 | 1.0.0            |
| G3 | Diesel(Cl0-C28) |               | 336030 | 26478.8 | 10.0             |

#### c:\ezchrom\chrom\ta31\ta31.010 -- Channel A



DA 5030



File : c:\ezchrom\chrom\ta31\ta31.004
Method : c:\ezchrom\methods\ds50a31.met

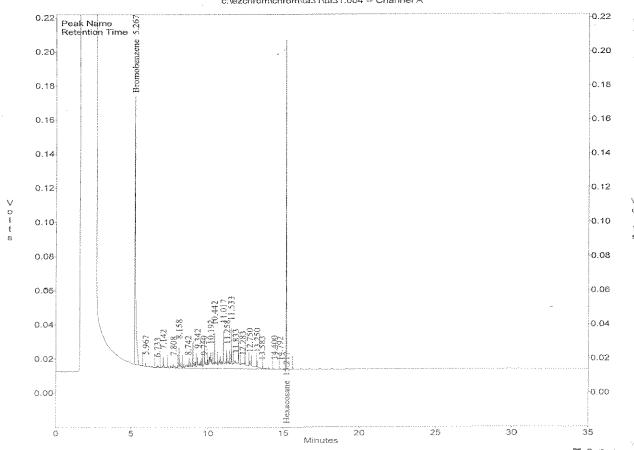
Sample ID : DS50A3103 50/40/10 Acquired : Jan 31, 2006 16:26:47 Printed : Feb 01, 2006 09:34:49

User : JANE

#### Channel A Results

| #   | Peak Name       | Ret.Time(Min)                                     | Area    | Ave. CF             | ESTD Conc. (ppm) |
|-----|-----------------|---|---------|---------------------|------------------|
| ~ - |                 | the second control of the second of the second of | * *     | ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ |                  |
| 1   | Bromobenzene    | 5.267   | 574237  | 14214.3             | 40.0             |
| 22  | Hexacosane      | 15.217  | 293707  | 28984.5             | 10.0             |
| Gl  | Diesel (TOTAL)  |   | 1096379 | 26500.7             | 50.0             |
| G2  | Diesel(C10-C24) |   | 1094793 | 26460.6             | 50.0             |
| .G3 | Diesel(C10-C28) |   | 1096379 | 26478.8             | 50.0             |

#### c:\ezchrom\chrom\ta31\ta31.004 -- Channel A



At 5031



File : c:\ezchrom\chrom\ta31\ta31.005
Method : c:\ezchrom\methods\ds50a31.met

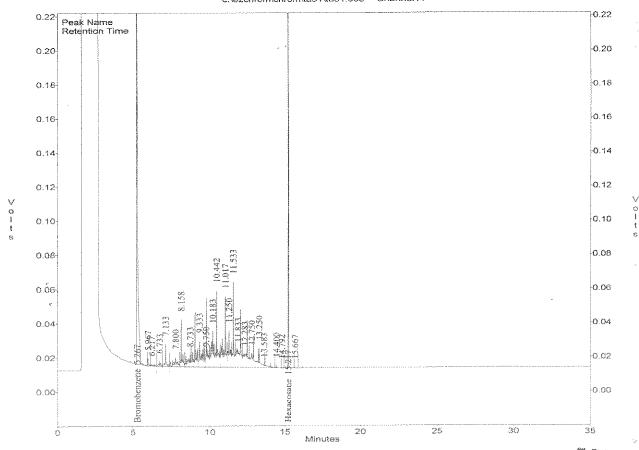
Sample ID : DS50A3104 100/60/15 Acquired : Jan 31, 2006 17:08:56 Printed : Feb 01, 2006 09:35:08

User : JANE

#### Channel A Results

| #      | Peak Name       | Ret.Time(Min) | Area                    | Ave. CF | ESTD Conc. (ppm) |
|--------|-----------------|---------------|-------------------------|---------|------------------|
| an 140 |                 |               | * * * * * * * * * * * * |         |                  |
| 1      | Bromobenzene    | 5.267         | 908499                  | 14214.3 | 60.0             |
| 23     | Hexacosane      | 15,217        | 467670                  | 28984.5 | 15.0             |
| G1     | Diesel (TOTAL)  |               | 2610524                 | 26500.7 | 100.0            |
| G2     | Diesel(Cl0-C24) |               | 2608042                 | 26460.6 | 100.0            |
| G3     | Diesel(C10-C28) |               | 2610524                 | 26478.8 | 100.0            |

#### c:\ezchrom\chrom\ta31\ta31.005 -- Channel A



A 5032



File : c:\ezchrom\chrom\ta31\ta31.006
Method : c:\ezchrom\methods\ds50a31.met

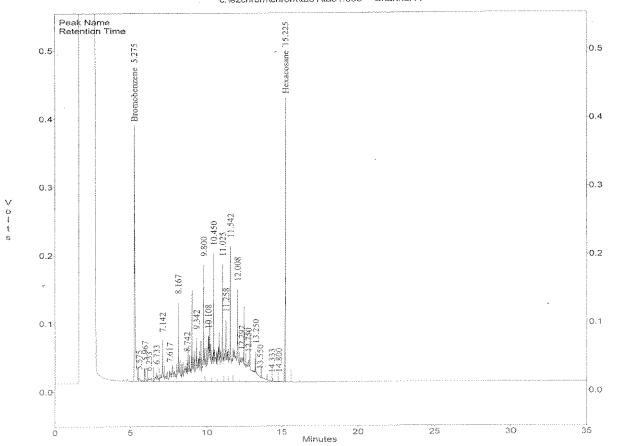
Sample ID : DS50A3105 500/100/2 Acquired : Jan 31, 2006 17:51:21 Printed : Feb 01, 2006 09:35:17

User : JANE

#### Channel A Results

| #        | Peak Name       | Ret.Time(Min) | Area     | Ave. CF                                    | ESTD Cone. (ppm) |
|----------|-----------------|---------------|----------|--|------------------|
| W/a #00. |                 |               |          | gar that had not been too the way with the |                  |
| 1        | Bromobenzene    | 5.275         | 1334115  | 14214.3                                    | 100.0            |
| 24       | Hexacosane      | 15.225        | 678205   | 28984.5                                    | 25.0             |
| G1       | Diesel (TOTAL)  |               | 11674800 | 26500.7                                    | 500.0            |
| G2       | Diesel(C10-C24) |               | 11665009 | 26460.6                                    | 500.0            |
| G3       | Diesel(C10-C28) |               | 11674800 | 26478.8                                    | 500.0            |

#### c:\ezchrom\chrom\ta31\ta31.006 -- Channel A



2033



File : c:\ezchrom\chrom\ta31\ta31.007
Method : c:\ezchrom\methods\ds50a31.met

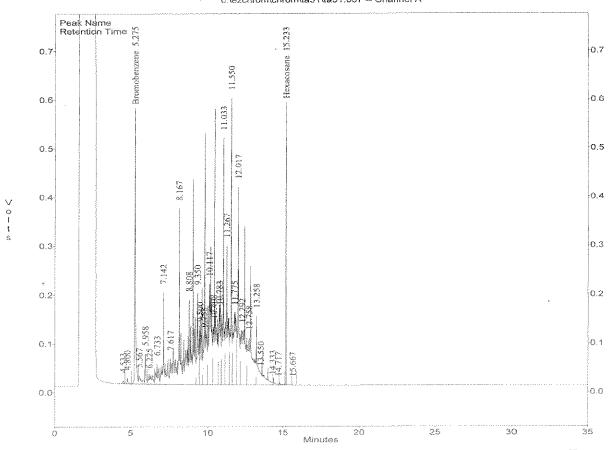
Sample ID : DS50A3106 1500/140/ Acquired : Jan 31, 2006 18:33:25 Printed : Feb 01, 2006 09:35:43

User : JANE

#### Channel A Results

| #   | Peak Name       | Ret.Time(Min) | Area     | Ave. CF | ESTD Conc. (ppm) |
|-----|-----------------|---------------|----------|---------|------------------|
|     |                 |               |          |         |                  |
| 3   | Bromobenzene    | 5.275         | 2029250  | 14214.3 | 140.0            |
| 29  | Hexacosane      | 15.233        | 999027   | 28984.5 | 35.0             |
| G1  | Diesel (TOTAL)  |               | 37395864 | 26500.7 | 1500.0           |
| G2  | Diesel(ClO-C24) |               | 37267404 | 26460.6 | 1500.0           |
| ·G3 | Diesel(Cl0-C28) |               | 37307612 | 26478.8 | 1500.0           |

#### c:\ezchrom\chrom\ta31\ta31.007 - Channel A



Dalone



File : c:\ezchrom\chrom\ta31\ta31.008
Method : c:\ezchrom\methods\ds50a31.met

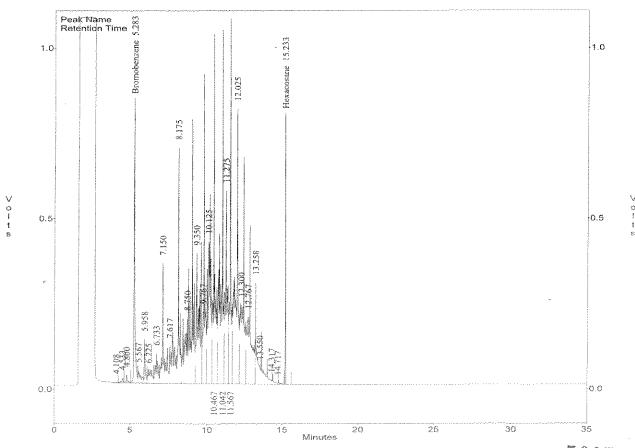
Sample ID : DS50A3107 3000/220/ Adquired : Jan 31, 2006 19:15:30 Printed : Feb 01, 2006 09:35:51

User : JANE

#### Channel A Results

| #   | Peak Name       | Ret.Time(Min) | Area     | Ave. CF | ESTD Conc. (ppm) |
|-----|-----------------|---------------|----------|---------|------------------|
|     |                 |               |          |         |                  |
| 4   | Bromobenzene    | 5.283         | 3175897  | 14214.3 | 220.0            |
| 27  | Hexacosane      | 15.233        | 1545839  | 28984.5 | 55.0             |
| G1  | Diesel (TOTAL)  |               | 77682664 | 26500.7 | 3000.0           |
| G2  | Diesel(ClO-C24) |               | 77324912 | 26460.6 | 3000.0           |
| -G3 | Diesel(C10-C28) |               | 77399448 | 26478.8 | 3000.0           |

#### c:\ezchrom\chrom\ta31\ta31.008 -- Channel A



15035 Deloiler



# SECOND SOURCE



#### INITIAL CALIBRATION VERIFICATION METHOD M8015

Lab Name : EMAX Lab Name : EMAX
Instrument ID : GCTO50
GC Column : DB-5
Column size ID : 30MX0.25MM
Mid Conc Init LFID & Datetime: TA31006A 01/31/2006 17:51
Conc Cont LFID & Datetime: TA31011A 01/31/2006 21:21
CONC UNIT : ppm

|                 | RT I    | RT WI  | NDOW    | TRUE    | AVERAGE | RESU     | JLT     | <u> </u> |          | %D     |
|-----------------|---------|--------|---------|---------|---------|----------|---------|----------|----------|--------|
| COMPOUND        | MINUTES | FROM   | το      | CONC    | CF      | AREA     | CONC    | %D       | QL.      | LIMITS |
|                 | zzzzzz  | ***    |         | *****   |         | *****    | ======= | 22222    | ==       | =====  |
| DIESEL(TOTAL)   | 0.000   | 0,000  | 0.000   | 500.0   | 26500.7 | 13255810 | 500.21  | 0        |          | 15     |
| DIESEL(C10-C24) | 0.000   | 0.000  | 0.000   | 500.0   | 26460.6 | 13131692 | 496.27  | -1       | Į.       | 15     |
| DIESEL(C10-C28) | 0.000   | 0.000  | 0.000   | 500.0   | 26478.8 | 13174570 | 497.55  | -0       |          | 15     |
|                 |         |        |         |         |         |          |         |          |          |        |
| SURROGATE       | MINUTES | FROM   | то      | TRUECON | CF      | AREA     | CONC    | %D       | lat.     | LIMITS |
|                 | aaaaaaa |        | ======= |         |         |          | 2222224 | ======   | mm       |        |
| BROMOBENZENE    | 5.275   | 5.188  | 5.362   | 100.0   | 14214.3 | 1337667  | 94,11   | -6       | ĺ        | 15     |
| HEXACOSANE      | 15.225  | 14.892 | 15.558  | 25.0    | 28984.5 | 687118   | 23.71   | -5       | İ        | 15     |
|                 | Í       |        |         |         |         |          |         | <u> </u> | <b>.</b> | l      |

DS50A31.MET

DA 5037



# METHOD 8015 by GC/FID EMAX Analytical Laboratories, Inc.

: c:\ezchrom\chrom\ta31\ta31.011 File : c:\ezchrom\methods\ds50a31.met Method

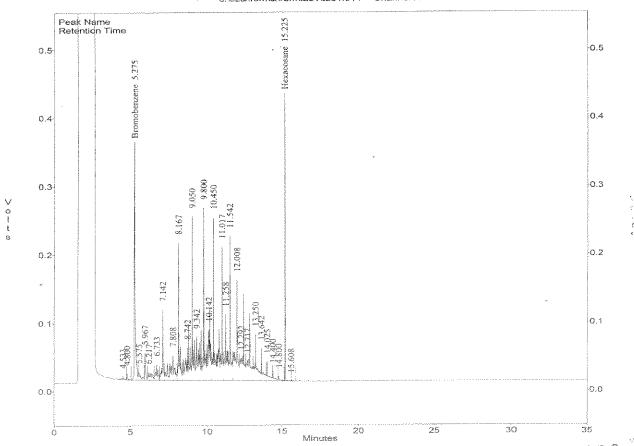
: IDS50A3101 500PPM Sample ID : Jan 31, 2006 21:21:44 : Feb 01, 2006 09:36:17 Acquired Printed

User : JANE

#### Channel A Results

| #    | Peak Name   | Ret.Time(Min) | Area     | Āν   | re. CF  | ESTD Conc. (ppm) |
|------|---|---------------|----------|------|---------|------------------|
| ÷ ~  | The second and an are second are second as the second are second as |               |          |      |         |                  |
| 3    | Bromobenzene  | 5.275         | 1337667  | U.S. | 14214.3 | 94.1             |
| 28   | Hexacosane  | 15.225        | 687118   |      | 28984.5 | 23.7             |
| G1   | Diesel(TOTAL)   |               | 13255810 |      | 26500.7 | 500.2            |
| G2   | Diesel(C10-C24)   |               | 13131692 |      | 26460.6 | 496.3            |
| · G3 | Diesel(C10-C28)   |               | 13174570 |      | 26478.8 | 497.6            |

# c:\ezchrom\chrom\ta31\ta31.011 -- Channel A



DA 5038 1



# INITIAL CALIBRATION VERIFICATION METHOD M8015

Lab Name : EMAX instrument ID : GCT050 : 08-5 : 30MX0.25MM GC Column Column size ID

Mid Conc Init LFID & Datetime: TA31007A 01/31/2006 18:33 Conc Cont LFID & Datetime: TA31012A 01/31/2006 22:03

: ppm

|                 | RT      | RT W   | NDOW   | TRUE    | AVERAGE                                 | RESU     | LT      |        | }    | %D     |
|-----------------|---------|--------|--------|---------|---|----------|---------|--------|------|--------|
| COMPOUND        | MINUTES | FROM   | TO     | CONC    | CF                                      | AREA     | CONC    | %D     | QL   | LIMITS |
|                 | ======  | ====== | *****  | ****    | ****                                    | ******   | ******* | *****  | ==   |        |
| DIESEL(TOTAL)   | 0.000   | 0.000  | 0.000  | 1500.0  | 26500.7                                 | 40011184 | 1509.81 | 1      | 1    | 15     |
| DIESEL(C10-C24) | 0.000   | 0.000  | 0.000  | 1500.0  | 26460.6                                 | 39560264 | 1495.06 | -0     |      | 15     |
| DIESEL(C10-C28) | 0.000   | 0.000  | 0.000  | 1500.0  | 26478.8                                 | 39688336 | 1498.87 | ~0     |      | 15     |
|                 |         |        |        | ******  |   |          |         |        |      |        |
| SURROGATE       | MINUTES | FROM   | ŤΟ     | TRUECON | CF                                      | AREA     | CONC    | %D     | QL.  | LIMITS |
|                 |         | *===== | ====== | ======= | mmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmm | =======  |         | 222222 | 22   | *****  |
| BROMOBENZENE    | 5.275   | 5.188  | 5,362  | 140.0   | 14214.3                                 | 1999372  | 140.66  | 0      | 1    | 15     |
| HEXACOSANE      | 15.233  | 14.900 | 15.566 | 35.0    | 28984.5                                 | 989691   | 34.15   | -2     | 4144 | 15     |
|                 |         |        |        |         |   |          |         |        | 1    | l      |

DS50A31.MET



# METHOD 8015 by GC/FID EMAX Analytical Laboratories, Inc.

: c:\ezchrom\chrom\ta31\ta31.012 File Method : c:\ezchrom\methods\ds50a31.met

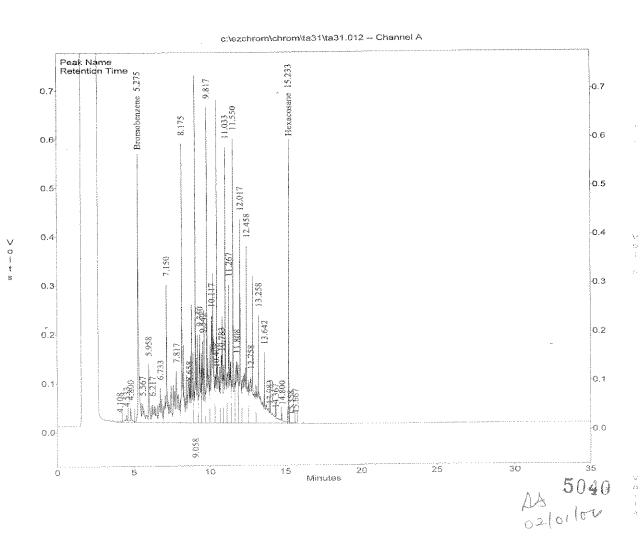
: IDS50A3102 1500PPM Sample ID : Jan 31, 2006 22:03:47 : Feb 01, 2006 09:36:33 Acquired Printed

: JANE User

# Channel A Results

| #  | Peak Name        | Ret.Time(Min) | Area     | Ave. CF   | ESTD Conc. (ppm) |
|----|------------------|---------------|----------|-----------|------------------|
|    |                  |               |          |           |                  |
| 4  | Bromobenzene     | 5.275         | 1999372  | v 14214.3 | 140.7 🗸          |
| 32 | Hexacosane       | 15.233        | 989691 - | 28984.5   | 34.1 -           |
| G1 | Diesel (TOTAL)   |               | 40011184 | 26500.7   | 1509.8 -         |
| G2 | Diesel(Cl0-C24)  |               | 39560264 | 26460.6   | 1495.1           |
|    | Diesel (C10-C28) |               | 39688336 | 26478.8   | 1498.9 -         |

# c:\ezchrom\chrom\ta31\ta31.012 -- Channel A





# METHOD 8015 by GC/FID EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ta31\ta31.013
Method : c:\ezchrom\methods\ds50a31.met

Sample ID : HC-CHAIN

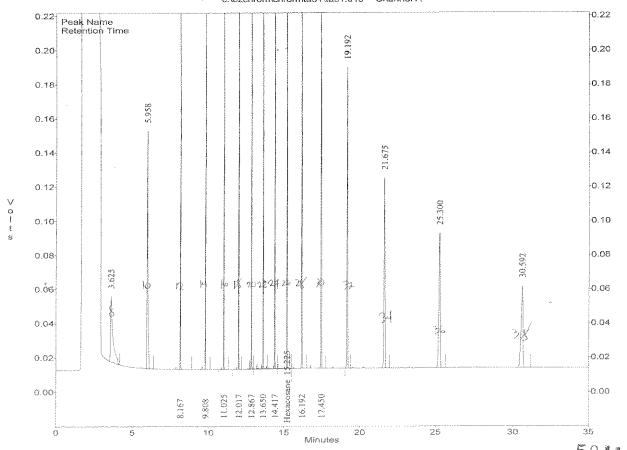
Acquired : Jan 31, 2006 22:45:44 Printed : Feb 01, 2006 09:38:59

User : JANE

# Channel A Results

| 13<br>12 | Peak Name       | Ret.Time(Min)                                 | Area    | Ave. CF | ESTD Conc. (ppm) |
|----------|-----------------|---|---------|---------|------------------|
|          |                 | and all the time will be supplied the time to |         |         |                  |
| ~~ ·     | Bromobenzene    | 5.283   | 0       | 0.0     | 0.0              |
| 10       | Hexacosane      | 15.225  | 612551  | 28984.5 | 21.1             |
| Gl       | Diesel (TOTAL)  |   | 7808933 | 26500.7 | 294.7            |
| G2       | Diesel(C10-C24) |   | 4312145 | 26460.6 | 163.0            |
| G3       | Diesel(Cl0-C28) |   | 4904687 | 26478.8 | 185.2            |

#### c:\ezchrom\chrom\ta31\ta31.013 -- Channel A



5041 Dajoilou



# DAILY CALIBRATION



#### CONTINUE CALIBRATION METHOD M8015

Lab Name : EMAX
Instrument ID : GCT050
GC Columm : DB-5
Column size ID : 30MX0.25MM
Mid Conc Init LFID & Datetime: TA31006A 01/31/2006 17:51
Conc Cont LFID & Datetime: TA31038A 02/01/2006 16:15
CONC UNIT : ppm

|                 | RT      | RT W   | NDOW    | TRUE    | AVERAGE   | RES      | JLT       | <u> </u> |          | %D [   |
|-----------------|---------|--------|---------|---------|-----------|----------|-----------|----------|----------|--------|
| COMPOUND        | MINUTES | FROM   | TO      | CONC    | CF        | AREA     | CONC      | %D       | ۵Ł       | LIMITS |
|                 |         |        | 222222  | ******  | ********* | ******** | wrerrers. | were man | ==       | *****  |
| DIESEL(TOTAL)   | 0.000   | 0.000  | 0.000   | 500.0   | 26500.7   | 12211071 | 460.78    | -8       |          | 15     |
| D1ESEL(C10-C24) | 0.000   | 0.000  | 0.000   | 500.0   | 26460.6   | 12104211 | 457.44    | -9       |          | 15     |
| DIESEL(C10-C28) | 0.000   | 0.000  | 0.000   | 500.0   | 26478.8   | 12117903 | 457.64    | -8       |          | 15     |
| SURROGATE       | MINUTES | FROM   | 10      | TRUECON | CF        | AREA     | CONC      | %D       | GL       | LIMITS |
|                 |         |        | ******* | *****   | ****      | =======  |           | ======   | ಐಷ       | ****** |
| BROMOBENZENE    | 5.258   | 5.171  |         | 100.0   |           |          |           | 20       |          |        |
| HEXACOSANE      | 15.217  | 14.884 | 15.550  | 25.0    | 28984.5   | 798221   | 27.54     | 10       |          |        |
|                 |         |        |         |         |           |          | l         |          | <b>.</b> |        |



# METHOD 8015 by GC/FID EMAX Analytical Laboratories, Inc.

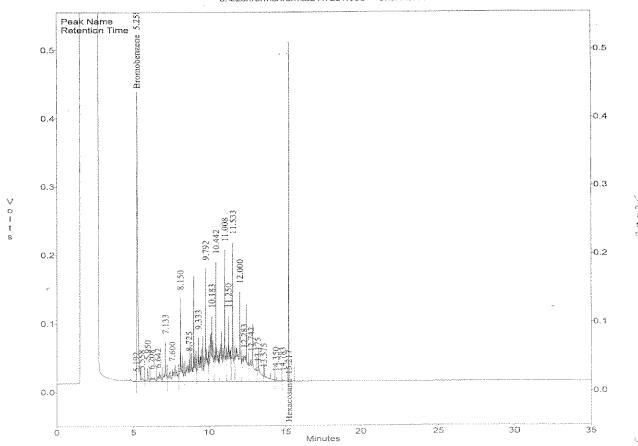
File : c:\ezchrom\chrom\ta31\Ta31.038
Method : c:\ezchrom\methods\Ds50a31.met
Sample ID : CDS50AI9340 D500 p 01-02-04
Acquired : Feb 01, 2006 16:15:35 /
Printed : Feb 01, 2006 16:50:38

User : JANE

# Channel A Results

| #  | Peak Name       | Ret.Time(Min) | Area     | Ave. CF  | ESTD Conc. (ppm) |
|----|-----------------|---------------|----------|----------|------------------|
|    |                 |               |          |          |                  |
| 2  | Bromobenzene    | 5.258         | 1707543  | 142,14.3 | 120.1            |
| 25 | Hexacosane      | 15.217        | 798221   | 28984.5  | 27.5             |
| Gl | Diesel (TOTAL)  |               | 12211071 | 26500.7  | 460.8            |
| G2 | Diesel(C10-C24) |               | 12104211 | 26460.6  | 457.4            |
| ĢЗ | Diesel(Cl0-C28) |               | 12117903 | 26478.8  | 457.6            |

# c:\ezchrom\chrom\ta31\Ta31.038 -- Channel A





#### CONTINUE CALIBRATION METHOD M8015

Lab Name : EMAX
Instrument ID : GCT050
GC Column : D8-5
Column size ID : 30MX0.25MM
Mid Conc Init LFID & Datetime: TA31006A 01/31/2006 17:51
Conc Cont LFID & Datetime: TA31053A 02/02/2006 02:46
CONC UNIT : ppm

|                 |   |        |        |  |   |          |         | ····  | ···· | ······································ |
|-----------------|---|--------|--------|--|---|----------|---------|-------|------|--|
|                 | RT                                      | RT W   | MDOW   | TRUE                                   | AVERAGE                                 | RES      | JL T    |       |      | %D                                     |
| COMPOUND        | MINUTES                                 | FROM   | TO     | CONC                                   | CF                                      | AREA     | CONC    | %0    | QL   | LIMITS                                 |
|                 | _========                               |        | ****   | *****                                  | ======================================= | =======  | ******* |       | ==   |  |
| DIESEL(TOTAL)   | 0.000                                   | 0.000  | 0.000  | 500.0                                  | 26500.7                                 | 12504781 | 471.87  | -6    |      | 15                                     |
| DIESEL(C10-C24) | 0.000                                   | 0.000  | 0.000  | 500.0                                  | 26460.6                                 | 12493207 | 472.14  | -6    |      | 15                                     |
| DIESEL(C10-C28) | 0.000                                   | 0.000  | 0.000  | 500.0                                  | 26478.8                                 | 12504781 | 472.26  | -6    |      | 15                                     |
|                 |   |        | ~~~~~  |  |   |          |         |       |      |  |
| SURROGATE       | MINUTES                                 | FROM   | TO     | TRUECON                                | CF                                      | AREA     | CONC    | %D    | QL   | LIMITS                                 |
|                 | ======================================= | ====== | *****  | ====================================== | *******                                 | =======  | *****   | ===== | ===  | 22222                                  |
| BROMOBENZENE    | 5.267                                   | 5.180  | 5.354  | 100.0                                  | 14214.3                                 | 1746253  | 122.85  | 23    |      |  |
| HEXACOSANE      | 15.225                                  | 14.892 | 15.558 | 25.0                                   | 28984.5                                 | 812429   | 28.03   | 12    |      |  |
|                 |   |        |        |  |   |          |         |       |      | l                                      |



# METHOD 8015 by GC/FID EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ta31\TA31.053
Method : c:\ezchrom\methods\ds50a31.met

Sample ID : CDS50A31343 D500

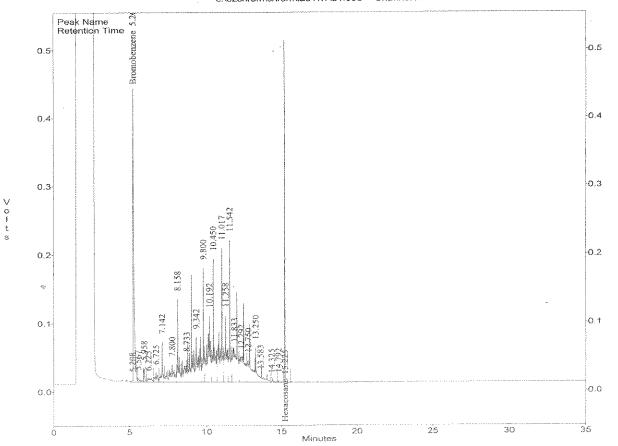
Acquired : Feb 02, 2006 02:46:19 Printed : Feb 02, 2006 11:30:52

User : JANE

# Channel A Results

| #   | Peak Name       | Ret.Time(Min) | Area     | Ave. CF | ESTD Conc. (ppm) |
|-----|-----------------|---------------|----------|---------|------------------|
|     |                 | ~             |          |         | ~~~              |
| 2   | Bromobenzene    | 5.267         | 1746253  | 14214.3 | - 122.9          |
| 25  | Hexacosane      | 15.225        | 812429   | 28984.5 | . 28.0           |
| Gl  | Diesel (TOTAL)  |               | 12504781 | 26500.7 | 471.9            |
| G2  | Diesel(Cl0-C24) |               | 12493207 | 26460.6 | 472.1            |
| -G3 | Diesel(C10-C28) |               | 12504781 | 26478.8 | 472.3            |

# c:\ezchrom\chrom\ta31\TA31.053 -- Channel A





#### CONTINUE CALIBRATION METHOD M8015

Lab Name : EMAX
Instrument ID : GCT050
GC Cotumm : DB-5
Cotumn size ID : 30MX0.25MM
Mid Conc Init LFID & Datetime: TA31006A 01/31/2006 17:51
Conc Cont LFID & Datetime: TA31064A 02/02/2006 10:27
CONC UNIT : ppm

|                 | RT      | RT W    | NDOW   | TRUE                | AVERAGE | RESU     | ILT     |    |          | %D     |
|-----------------|---------|---------|--------|---------------------|---------|----------|---------|----|----------|--------|
| COMPOUND        | MINUTES | FROM    | TO     | CONC                | CF      | AREA     | CONC    | %D | QL       | LIMITS |
|                 |         | semenes | ****** | ವಿ <b>ತಿಕ</b> ರ್ವಾಜ | ****    | *****    | *====== |    | ==       | ====== |
| DIESEL(TOTAL)   | 0.000   | 0.000   | 0.000  | 500.0               | 26500.7 | 12158671 | 458.80  | -8 |          | 15     |
| DIESEL(C10-C24) | 0.000   | 0.000   | 0.000  | 500.0               | 26460.6 | 12143914 | 458.94  | -8 |          | 15     |
| D1ESEL(C10-C28) | 0.000   | 0.000   | 0.000  | 500.0               | 26478.8 | 12158671 | 459.18  | -8 |          | 15     |
| SURROGATE       | MINUTES | FROM    | TO     | TRUECON             | CF      | AREA     | CONC    | %D | OL<br>== | LIMITS |
| BROMOBENZENE    | 5.267   |         |        | 100.0               | 14214.3 | 1689749  |         |    |          |        |
| HEXACOSANE      | 15.225  | 14.892  | 15.558 | 25.0                | 28984.5 | 801360   | 27.65   | 11 |          |        |
|                 |         |         |        |                     |         |          |         |    |          |        |



# METHOD 8015 by GC/PID EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ta31\TA31.064
Method : c:\ezchrom\methods\ds50a31.met

Sample ID : CDS50A31345 D500

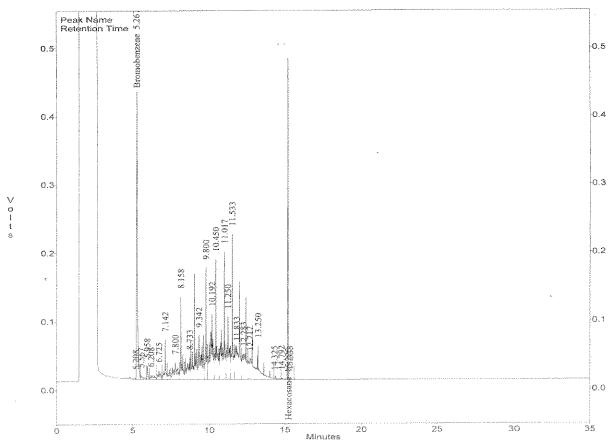
Acquired : Feb 02, 2006 10:27:51 Printed : Feb 02, 2006 11:30:56

User : JANE

# Channel A Results

| #  | Peak Name       | Ret.Time(Min) | Area     | Ave. CF | ESTD Conc. (ppm) |
|----|-----------------|---------------|----------|---------|------------------|
|    |                 |               |          |         |                  |
| 2  | Bromobenzene    | 5.267         | 1689749  | 14214.3 | 118.9            |
| 24 | Hexacosane      | 15.225        | 801360   | 28984.5 | . 27.6           |
| Gl | Diesel (TOTAL)  |               | 12158671 | 26500.7 | - 458.8          |
| G2 | Diesel(C10-C24) |               | 12143914 | 26460.6 | 458.9            |
| G3 | Diesel(Cl0-C28) |               | 12158671 | 26478.8 | . 459.2          |

# c:\ezchrom\chrom\ta31\TA31.064 - Channel A





# ANALYTICAL LOGS



ANALYSIS RUN LOG FOR TPH

EMAX-LUFTE Revision No. 3

SOP w EMAX-M8015D Revision No. 3 a

Book # A50-021

Page 84

|  | 36                 | RENCE                         | Date  | 350  |           |  |  | The state of the s | And a second a constitution of the second se | Conc.   | 3  |  | 2-300                                    | 3/00 - 4/00  | 33.8  |  |  | Date   |  |  | россия налимента от непользование по статем в непользование по статем  | The same of the sa | ***************************************  | Accountants manufactured by statiffurnity overstoods to canadagocomes.   | By:  | -  |  |
|--|--------------------|-------------------------------|---|--|-----------|--|--|--|--|---|--|--|--|--|---|--|--|--|--|--|--|--|--|--|--|--|--|
| Time: 25 2   | Instrument No:     | INITIAL CALIBRATION REFERENCE | Q)  | [5543]   |           | A CONTRACTOR OF THE PROPERTY O |  |  | Standards  |   | 4254   | e principal de la Colomo (Colomo  |  | 53C-64-63-3   |  | Electronic Data Archival   | Location   |  |  | A CALL CALL CALL CALL CALL CALL CALL CA  |  | ANTERNATION OF THE PROPERTY OF |  | Disposed on: Oh O - O.   | THE PROPERTY OF THE PROPERTY O |  |
| Time:  |                    | INITIA                        |   | Diesel   | Motor oil | JP 5   |  |  | ***************************************  | Name  | CH <sub>2</sub> Cl <sub>2</sub>  | DOC  | 181 181<br>J. 181                        | + SULK   | 100 JCS   |  |  |  | C EZC 1 Diesel   | 0  | Comments:  | •  |  | Analyzed By:   | Disposed on:   | ı  |  |
| A COMPANY OF THE PARTY OF THE P | Sick               |                               | (PSM) SURR  | in rechion   |           | 40/10  | 5/29   | 120  |  | 220/5%  | The second secon | 20 6   | 12 PG , 25/100/                          | 140/5% V   | A CHARLES AND A | The second secon |  | And the second second  |  |  |  |  |  |  |  |  | Section of the last of the las |
| Rading Date: O O O   | X.                 | W                             | d<br>Na   |  |           | 25   | 8  | 28   | 8  | Ş   | 5  | 0  | 98                                       | 283  |   |  |  |  |  |  |  |  |  |  | -  | Notice of Address.   | ***************************************  |
| Pading Jar   |                    | S                             |   |  |           |  |  | The state of the s |  |   |  |  |  |  |   |  |  |  |  | _Q`  | \$<br>\$<br>\$   | <b>L</b>   |  |  |  |  |  |
| The state of the s | Lab Sample ID      |                               | 1888A336  | DSSDA3101  | 8         | Ŝ  | *  | \$   | 30   | +5  | 0  | 8  | IDSECARAL CI                             | なり   | HC-CHAIN  | ¥62  |  |  |  | ) pod 4 de desemble de la constante de la cons |  |  | The second second second second second second second second second second second second second second second se  |  |  |  |  |
| A TANANDA CONTRACTOR OF THE PROPERTY OF THE PR | Data<br>Ella Marri | allie Malle                   | 17431-CO  | . 43.2   | 3         | \$   | 33   | 3777   | - ( 3 mg   | . 2%  | 37   | (3)m -   | TO.                                      | , CA)  | 3   | 7  |  | ****   | AND THE PARTY OF T | And the second s | Annual designation of the control of | C V CONTRACTOR CONTRAC | AND AND AND AND AND AND AND AND AND AND  | Martin Communication Communica | and the second s | The state of the s |  |
| The second secon | Preparative        | L CALCALL                     | оондагий шаграней на шан форм к корборд хонновиния и паливанам. | And delegated the second secon |           | ATTER ATTAMANANA AMANANANA ATTAMANANA ATTAMANANA ATTAMANANA  | The plant of the state of the s | Name and Annual  | A COMPANY OF THE PARTY OF THE P | W 100 glad Art attacks describe an ora for a property ( M. 100 also and Art attacks of the stacks f the stack of the stack | THE CONTRACT AND ADDRESS OF TH | Annual and and and annual control to the control of | TVIIII AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA | freelitery to constitute that and a familiar and a question of Community | Metalli von minimono o color que del por vi comina di cominada  | And the state of t | THE PROPERTY OF THE PROPERTY O | The second secon | NATIONAL PARTIES AND AND AND AND AND AND AND AND AND AND   | Annually and Amend Annual maps ( a verses a VA commodes a annual a   | The state of the s |  | PERSONAL PROCESSOR AND STREET AND | Manage of Armed System Laboratory and Armed Systems Laboratory and Armed S | Anderson March of the specimen of the contract | The second secon |  |
| The contract of the contract o |                    |                               |   |  |           |  |  |  | alv.   | LI  | IC 4   | L B,   | 17C)                                     | J  |   | i<br>Lili  | 1  <br>\   |  |  |  |  |  | The state of the s |  |  |  | 700000   |

# ANALYSIS RUN LOG FOR TPH

|                        | 99             | ERENCE                       | Date     | 0 - 31 cts  | 123 05         |  |  |  |   | Coac.<br>(mg/L)                                 | 9454<br>PSP  |             | 8  | Total Control of the  | WILLIAM SALAMAN AND AND AND AND AND AND AND AND AND A  | A CONTRACTOR OF THE PROPERTY O | THE RESIDENCE OF THE PROPERTY  | Date     |  |        | TOTAL CONTRACT A CONTR | And Andreas Control of the Control o |  |              | 옷<br>ắ       |
|------------------------|----------------|------------------------------|----------|---|----------------|--|--|--|---|---|--|-------------|--|--|--|--|--|----------|--|--------|--|--|--|--------------|--------------|
| 16:54                  | Instrument No: | INTHAL CALIBRATION REFERENCE | D        | DS52431   | MWSOLLS        |  |  |  | Standards                               | e   | 45257  | 25X.07.05.2 | X-80-90-855  | A CONTRACTOR OF THE PROPERTY O | A TO TO THE TOTAL AND AND AND AND AND AND AND AND AND AND  | AND THE PROPERTY OF THE PROPER | Electronic Data Archival   | Location | 1  |        | alli depreteria de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta  | ANT THE WASHINGTON AND AND AND AND AND AND AND AND AND AN  | AND THE PROPERTY OF THE PROPER | 8            |              |
| Time: 16 5             |                | INITIA                       |          | Diesel  | Motor oil Caux | 10 S   |  |  |   | Name  | CH <sub>2</sub> Cl <sub>2</sub>  | 13C 13C     | 100 OCC  |  | AND THE PROPERTY OF THE PROPER |  |  |          | D EZC_1_Diesel   | п      | Comments:  | n.   | Annual management and an analysis of the state of the sta | Analyzed By: | Disposed on: |
| ob Colombia (Colombia) | Notes          |                              |          |   |                |  |  | AND THE PROPERTY OF THE PROPER | **************************************  |   | COCCOMMENTAL PREMIOREMENTAL MANAGEMENT AND THE PROPERTY OF THE |             | AND THE REAL PROPERTY OF THE P |  |  |  | Se se  |          |  |        | annen en   |  |  |              |              |
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# **EXTRACTION LOGS**

Page 51

EXTRACTION LOG FOR TPH

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| 20            |  |   | Number   | Amount<br>(g) ml)  | Volume<br>(ml)   | Сеап-пр    | Notes  | Surrogate<br>LCS/MS  | 5536-07-04-1   |  |
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CLIENT:

SES-TECH

PROJECT:

**CAMP PENDLETON, UST SITE 1441** 

SDG:

06A173A

| SECTION          |                         | PAGE        |
|------------------|-------------------------|-------------|
| Cover Letter, CO | OC/Sample Receipt Form  | 1000 – 1005 |
| GC/MS-VOA        | SW 1312/5030B/8260B     | 2000 – 2031 |
| GC/MS-SVOA       | SW 1312/3520C/8270C SIM | 3000 – 3027 |
| GC-VOA           | **                      | 4000 –      |
| GC-SVOA          | METHOD 1312/3520C/8015B | 5000 - 5028 |
| HPLC             | **                      | 6000 –      |
| METALS           | **                      | 7000 –      |
| WET              | **                      | 8000 —      |
| OTHERS           | **                      | 9000 –      |
|                  |                         |             |

<sup>\*\* -</sup> Not Requested





1835 W. 205th Street Torrance, CA 90501

Tel: (310) 618-8889 Fax: (310) 618-0818

Date: 02-15-2006

EMAX Batch No.: 06A173A

Attn: Nick Weinberger

SES-TECH

1940 E. Deere Avenue, Suite 200

Santa Ana CA 92705

Subject: Laboratory Report

Project: Camp Pendleton, UST Site 1441

Enclosed is the Laboratory report for samples received on 01/31/06.

Enclosed is the Laboratory report for samples received on 01/31/06. The data reported include:

| Sample ID | Control # | Col Date | Matrix | Analysis  |
|-----------|-----------|----------|--------|---|
|           |           |          |        | ***************************************                                 |
| 0003-069  | A173-01   | 01/31/06 | SOIL   | TPH DIESEL SPLP VOLATILE ORGANICS SPLP SEMIVOLATILE ORGANICS SPLP       |
| 0003-074  | A173-06   | 01/31/06 | SOIL   | TPH DIESEL SPLP VOLATILE ORGANICS SPLP SEMIVOLATILE ORGANICS SPLP       |
| 0003-077  | A173-09   | 01/31/06 | SOIL   | TPH DIESEL SPLP<br>VOLATILE ORGANICS SPLP<br>SEMIVOLATILE ORGANICS SPLP |

The results are summarized on the following pages.

Please feel free to call if you have any questions concerning these results.

Sincerely yours,

Kam Y. Pang, Ph.D. Laboratory Director

# CHANGE ORDER FORM

06A173A Project Code SESDS/0\_ SDG TAT 06 Requested by Date Requested Due Date Analytical Requirements OXA EMAX Control Sample Prep. Analytical Special Instructions Number Methods Methods 06X173-01 8015B SPLP 1312 3520C 8015 B VOC 1312/520C 82705iM PAHS SPLP DIESER 1312/5030B 8260B SP2P VOC PAHO

A-additional

X-cancelled

O-others (specify)

Original Months

|                         |              |  |                  | CHA                | IN-                                   | OF-C     | CUS                                     | TODY            | RE                 | COL       | RD                                    |  |  | 4           |                 |                     | •                                     |
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| PROJECT NAME            |              |  | PURCHASE OR      | DER NO             |                                       |          |   | 1               | ****               |           | · · · · · · · · · · · · · · · · · · · | ······································ |  |             | 0 A             | 173                 |                                       |
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| SAMPLER NAME            | - R          |  | SAMPLER SIG      | GNATURE            | <u>ニュ</u><br>ク 「                      | <u>)</u> | *************************************** |                 |                    |           | 4                                     | 4                                      |  |             |                 | LABORATORY          | m                                     |
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| 3 0003-0                | 110          | 115106   |                  | 2                  | X                                     | 15       | 45                                      | X               |                    |           |                                       |  | $\dagger$  |             |                 |                     |                                       |
| 10003-0                 | 72           | 1131106  |                  | 2                  | X                                     | S        | 168                                     | X               |                    |           | 1                                     |  | <del>                                     </del> |             |                 | <del></del>         | ·                                     |
| 5 5003-0                | >73          | 1131106  |                  | 2                  | V                                     | 5        | (A)                                     | K               |                    |           |                                       |  |  |             | $\neg$          |                     | · · · · · · · · · · · · · · · · · · · |
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| COMPANY                 | ŗ            | 7445 1   | Mary m           | P <sub>X</sub>     |                                       | COOL     |   |                 |                    | TACT      |                                       | MPLE C                                 | OKEN   |             |                 | INTACT              | BRC                                   |
|                         |              |  | Whi              | te - Labo          | ratory;                               | Pink     | - Labo                                  | oratory:        | Canar              | y - Pro   | ject I                                | ile; <u>M</u>                          | anila -  | Data        | Mana            | gement              |                                       |
|                         | ~~~          |  |                  |                    |                                       |          |   |                 |                    |           |                                       |  |  |             |                 |                     |                                       |

1002

# Richard Beauvil

Nick. Weinberger@tteci.com From:

Tuesday, February 07, 2006 2:54 PM Sent:

Richard Beauvil To:

Subject: Re: 06A173

Richard,

Please analyze SDG 06A173 sample numbers 0003-069, 0003-074, and 0003-077 for SPLP TPH-d, SPLP VOC's, and SPLP PAH's. Let me know if you have any questions.

Š

Nicholas Weinberger

Tetra Tech EC Inc. Phone: (949)756-7588 Fax: (949)756-7583

E-mail: Nick.Weinberger@tteci.com

Richard Beauvil <RBeauvil@emaxlabs.com>

02/02/2006 05:23 PM

Subject 06A173

To "Nick Weinberger (E-mail)" <nick.weinberger@tteci.com>

Hi Nick

Please find the results attached.

Thank you.

(Richard Beauvil

Project Manager

1835 205th Street Torrance, CA 90501 Tel: 310/618-8889

Fax: 310/618-0818
Email: rbeauvil@emaxlabs.com
[attachment "a173\_F8015e.PDF" deleted by Nicholas Weinberger/SCI/CSQ]

# **REPORTING CONVENTIONS**

# **DATA QUALIFIERS:**

| Lab Qualifier | AFCEE Qualifier | Description  |
|---------------|-----------------|--|
| J             | F               | Indicates that the analyte is positively identified and the result is less than RL but greater than MDL.       |
| N             |                 | Indicates presumptive evidence of a compound.  |
| В             | В               | Indicates that the analyte is found in the associated method blank as well as in the sample at above QC level. |
| Eur.          | J               | Indicates that the result is above the maximum calibration range.  |
| *             | *               | Out of QC limit.   |

Note: The above qualifiers are used to flag the results unless the project requires a different set of qualification criteria.

# **ACRONYMS AND ABBREVIATIONS:**

| CRDL | Contract Required Detection Limit |
|------|-----------------------------------|
| RL   | Reporting Limit                   |
| MRL  | Method Reporting Limit            |
| PQL  | Practical Quantitation Limit      |
| MDL  | Method Detection Limit            |
| DO   | Diluted out                       |

# **DATES**

The date and time information for leaching and preparation reflect the beginning date and time of the procedure unless the method, protocol, or project specifically requires otherwise.

# LABORATORY REPORT FOR

SES - TECH

CAMP PENDLETON, UST SITE 1441

SW 1312/5030B/8260B SPLP VOLATILE ORGANICS BY GC/MS

SDG#: 06A173A

# **CASE NARRATIVE**

CLIENT: SES-TECH

PROJECT: CAMP PENDLETON, UST SITE 1441

SDG: 06A173A

# SW 1312/5030B/8260B SPLP VOLATILE ORGANICS BY GC/MS

Three (3) soil samples were received on 01/31/06 for Volatile Organic analysis by Method 1312/5030B/8260B in accordance with USEPA SW846, 3<sup>rd</sup> ed.

# 1. Holding Time

Analytical holding time was met.

# 2. Tuning and Calibration

Tuning and calibration were carried out at 12-hour interval. All QC requirements were met.

# 3. Method Blank

Method blanks were free of contamination at half of the reporting limit.

# 4. Surrogate Recovery

Recoveries were within QC limit except Bromoflurobenzene in sample A173-09 was out of the limit due to matrix interference.

# 5. Lab Control Sample/Lab Control Sample Duplicate

Recoveries were within QC limit.

# 6. Matrix Spike/Matrix Spike Duplicate

No MS/MSD sample was designated in this SDG.

# 7. Sample Analysis

Samples were analyzed according to the prescribed QC procedures. All criteria were met with the aforementioned exception.

| ここここ こ ひにひょうにじば                             |   |             |             |   |  |                                       |   | 017 040     | T                                     |
|---|---|-------------|-------------|---|--|---------------------------------------|---|-------------|---------------------------------------|
| Project : CAMP PENDLETON, UST SITE 1441     | N, UST SITE 144                           | ęm.         |             |   |  |                                       |   | SUG NO.     | : U6A1/5A                             |
|   |   |             |             |   |  |                                       |   |             | instrument to : 1-001                 |
|   |   |             |             | N 100 - 100 | and the same was some year old the same was some one of the same of the same old the same old the same old the |                                       | - was data data data data was seen oren was data data data data data data data da |             | 在 医                                   |
|   |   |             |             | MA  | WATER  |                                       |   |             | ,                                     |
| Clent                                       | Laboratory Dilution                       | Dilution    | *           | Analysis  | Extraction   | Sample                                | Calibration Prep.   | on Prep.    |                                       |
| Sample ID                                   | Sample 1D                                 | Factor      | Moist       | Datelime  | DateTime   | Data FN                               | Data FN   | Batch       | Notes                                 |
| 7 1 5 D F F F F F F F F F F F F F F F F F F | 1 2 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | }<br>       | ;<br>;<br>; | 1   | 1  | t t t t t t t t t t t t t t t t t t t | 1<br>1<br>1<br>1<br>1   | 1 1 1 1 1 1 | 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 |
| MBLK1W                                      | V001B19Q                                  | -           | MA          | 02/09/0614:44   | 02/09/0614:44  | RBV218                                | RAV257  | VO01R19     | Mothod Blank                          |
| LCS1W                                       | V001B19L                                  | <del></del> | NAN         | 02/09/0612:49   | 02/09/0612:49  | RBV215                                | RAV257  | V001819     | Tab Control Sample (100)              |
| <u>3</u> 001                                | V001B19C                                  | free        | MA          | 02/09/0613:28   | 02/09/0613:28  | RBV216                                | RAV257  | V001B19     | ICS Dishlicate                        |
| MBLK1S                                      | SLB001SB                                  | <del></del> | AN          | 02/09/0615:23   | 02/09/0615:23  | RBV219                                | RAV257  | V001R19     | Method Blank                          |
| 0003-869                                    | A173-01                                   | -           | ΝΑ          | 02/09/0616:39   | 02/09/0616:39  | RBV221                                | RAV257  | V001B19     | Field Sample                          |
| J0US-U/4                                    | A173-06                                   | <b>****</b> | AN          | 02/09/0617:23   | 02/09/0617:23  | RBV222                                | RAV257  | V001B19     | Field Sample                          |
| 300.5 - 077                                 | A173-09                                   | ***         | X.          | 02/09/0618:01   | 02/09/0618:01  | RBV223                                | RAV257  | V001B19     | Field Sample                          |

FN - Filename % Moist - Percent Moisture

# SAMPLE RESULTS

Client : SES-TECH
Project : CAMP PENDLETON, UST SITE 1441 Date Collected: 01/31/06 Date Received: 01/31/06 Batch No. : 06A173A Date Extracted: 02/09/06 16:39 Sample ID: 0003-069 Lab Samp ID: A173-01 Date Analyzed: 02/09/06 16:39 Dilution Factor: 1 : WATER Lab File ID: RBV221 Matrix Ext Btch ID: V001B19 % Moisture : NA Calib. Ref.: RAV257 Instrument ID : T-001

|                             | RESULTS    | RL         | MDL    |
|-----------------------------|------------|------------|--------|
| PARAMETERS                  | (ug/L)     | (ug/L)     | (ug/L) |
| 4 4 4 TOTALL CONTINE        |            |            | ****   |
| 1,1,1-TRICHLOROETHANE       | ND         | 5          | .2     |
| 1,1,2,2-TETRACHLOROETHANE   | ND         | 1          | .2     |
| 1,1,2-TRICHLOROETHANE       | ND         | 5          | .2     |
| 1,1-DICHLOROETHANE          | ND         | 5          | -2     |
| 1,1-DICHLOROETHENE          | ND         | 5          | .2     |
| 1,2-DICHLOROETHANE          | ND         | .5         | .2     |
| 1,2-DICHLOROPROPANE         | ND         | 5          | .2     |
| METHYL ETHYL KETONE         | ND         | 50         | .2     |
| 2-HEXANONE                  | ND         | 50         | 5      |
| 4-METHYL-2-PENTANONE (MIBK) | ND         | 50         | 5<br>5 |
| ACETONE                     | ND         | 50         | 5      |
| BENZENE                     | ND         | <b>.</b> 5 | .2     |
| BROMODICHLOROMETHANE        | ND         | 5          | .2     |
| BROMOFORM                   | ND         | 5          | .3     |
| BROMOMETHANE                | ND         | 5          | .2     |
| CARBON TETRACHLORIDE        | ND         | .5         | .2     |
| CHLOROBENZENE               | ND         | 5          | .2     |
| CHLOROETHANE                | ND         | 5          | .2     |
| CHLOROFORM                  | ND         | 5          | .2     |
| CHLOROMETHANE               | ND         | 5          | .2     |
| CIS-1,2-DICHLOROETHENE      | ND         | 5          | .Ž     |
| CIS-1,3-DICHLOROPROPENE     | ND         | .5         | .2     |
| DIBROMOCHLOROMETHANE        | ND         | 5          | .2     |
| ETHYLBENZENE                | 1.2        | .5         | .2     |
| XYLENES                     | ND         | 5          | .2     |
| MTBE                        | ND         | 1          | .2     |
| METHYLENE CHLORIDE          | ND         | 5          | .5     |
| STYRENE                     | ND         | 5          | .2     |
| TETRACHLOROETHYLENE         | ND         | 5          | .2     |
| TOLUENE                     | ND         | .5         | .2     |
| TRANS-1,2-DICHLOROETHENE    | ND         | 5          | .2     |
| TRANS-1,3-DICHLOROPROPENE   | ND         | .5         | .2     |
| TRICHLOROETHENE             | ND         | 5          | .2     |
| VINYL ACETATE               | ND         | 50         | .5     |
| VINYL CHLORIDE              | ND         | .5         | .2     |
| TERT-BUTYL ALCOHOL          | ND         | 20         | 5      |
| DIISOPROPYL ETHER           | ND<br>ND   | 5          | .2     |
| ETHYL TERT-BUTYL ETHER      | ND<br>ND   | 5          |        |
| TERT-AMYL METHYL ETHER      | ND<br>ND   | ><br>5     | .2     |
| TENT AFTE METRIC CINER      | עא         | 3          | . 2    |
| SURROGATE PARAMETERS        | % RECOVERY | QC LIMIT   |        |

| SURROGATE PARAMETERS  | % RECOVERY                      | QC LIMIT |
|-----------------------|---------------------------------|----------|
|                       | *** *** *** *** *** *** *** *** |          |
| 1,2-DICHLOROETHANE-D4 | 94                              | 65 - 135 |
| TOLUENE-D8            | 102                             | 75 - 125 |
| BROMOFLUOROBENZENE    | 113                             | 75 - 125 |

R.L.: Reporting limit

: Out of QC

: Exceeded calibration range : Found in associated method blank : Value between R.L. and MDL : Value from dilution analysis

D.O. : Diluted out

SPLP Extraction Date: 02/08/06 17:15

Client : SES-TECH
Project : CAMP PENDLETON, UST SITE 1441 Date Collected: 01/31/06 Date Received: 01/31/06 Batch No. : 06A173A Date Extracted: 02/09/06 17:23 Sample ID: 0003-074 Lab Samp ID: A173-06 Date Analyzed: 02/09/06 17:23 Dilution Factor: 1 Lab File ID: RBV222 : WATER Matrix Ext Btch ID: V001B19 % Moisture : NA Calib. Ref.: RAV257 Instrument ID : T-001 

| PARAMETERS                  | RESULTS<br>(ug/L) | RL<br>(ug/L) | MDL<br>(ug/L) |
|-----------------------------|-------------------|--------------|---------------|
|                             |                   |              |               |
| 1,1,1-TRICHLOROETHANE       | ND                | 5            | .2            |
| 1,1,2,2-TETRACHLOROETHANE   | ND                | *            | .2            |
| 1,1,2-TRICHLOROETHANE       | ND                | 5            | .2            |
| 1,1-DICHLOROETHANE          | ND                | 5            | .2            |
| 1,1-DICHLOROETHENE          | ND                | 5            | .2            |
| 1,2-DICHLOROETHANE          | ND                | .5           | .2            |
| 1,2-DICHLOROPROPANE         | ND                | 5            | .2            |
| METHYL ETHYL KETONE         | ND                | 50           | .2            |
| 2-HEXANONE                  | ND                | 50           | 5             |
| 4-METHYL-2-PENTANONE (MIBK) | ND                | 50           | 5             |
| ACETONE                     | ND                | 50           | 5             |
| BENZENE                     | ND                | .5           | 5<br>.2       |
| BROMODICHLOROMETHANE        | ND                | 5            | .2            |
| BROMOFORM                   | ND                | 5<br>5       | .3            |
| BROMOMETHANE                | ND                | 5            | .2            |
| CARBON TETRACHLORIDE        | ND                | .5           | .2            |
| CHLOROBENZENE               | ND                | 5            | .2            |
| CHLOROETHANE                | ND                | 5<br>5       | .2            |
| CHLOROFORM                  | ND                | 5            | .2            |
| CHLOROMETHANE               | ND                | 5            | .2            |
| CIS-1,2-DICHLOROETHENE      | ND                | .5<br>.5     | .2            |
| CIS-1,3-DICHLOROPROPENE     | ND                | .5           | .2            |
| DIBROMOCHLOROMETHANE        | ND                | .5           | .2            |
| ETHYLBENZENE                | ND                | .5           | .2            |
| XYLENES                     | ND                | 5            | .2            |
| MTBE                        | ND                | 1            | .2            |
| METHYLENE CHLORIDE          | ND                | 5            | .5            |
| STYRENE                     | ND                | 5<br>5       | .2            |
| TETRACHLOROETHYLENE         | ND                | 5            | .2            |
| TOLUENE                     | ND                | .5           | .2            |
| TRANS-1,2-DICHLOROETHENE    | ND                | 5            | .2            |
| TRANS-1,3-DICHLOROPROPENE   | ND                | .5           | .2            |
| TRICHLOROETHENE             | ND                | 5            | .2            |
| VINYL ACETATE               | ND                | 50           | .5            |
| VINYL CHLORIDE              | ND                | .5           | .2            |
| TERT-BUTYL ALCOHOL          | ND                | 20           | 5             |
| DIISOPROPYL ETHER           | ND                | 5            | .2            |
| ETHYL TERT-BUTYL ETHER      | ND                | 5            | .2            |
| TERT-AMYL METHYL ETHER      | ND                | 5            | .2            |
| OUDDOOATE DAMAGETEDO        |                   |              |               |

| % RECOVERY        | QC LIMIT  |
|-------------------|-----------|
| * * * = = = = = = |           |
| 102               | 65 - 135  |
| 99                | 75 - 125  |
| 108               | 75 - 125  |
|                   | 102<br>99 |

R.L.: Reporting limit

\* : Out of QC

E : Exceeded calibration range
B : Found in associated method blank
J : Value between R.L. and MDL
D : Value from dilution analysis
D.O. : Diluted out

SPLP Extraction Date: 02/08/06 17:15

Client : SES-TECH
Project : CAMP PENDLETON, UST SITE 1441 Date Collected: 01/31/06 Date Received: 01/31/06 Batch No. : 06A173A Date Extracted: 02/09/06 18:01 Sample 1D: 0003-077 Date Analyzed: 02/09/06 18:01 Lab Samp ID: A173-09 Dilution Factor: 1 Lab File ID: RBV223 : WATER Matrix Ext Btch ID: V001B19 % Moisture : NA Calib. Ref.: RAV257 Instrument ID : T-001 

|                               | RESULTS    | RL       | MDL      |
|-------------------------------|------------|----------|----------|
| PARAMETERS                    | (ug/L)     | (ug/L)   | (ug/L)   |
|                               |            | ~~~~     |          |
| 1,1,1-TRICHLOROETHANE         | ND         | 5        | .2       |
| 1,1,2,2-TETRACHLOROETHANE     | ND         | 1        | .2       |
| 1,1,2-TRICHLOROETHANE         | ND         | 5        | .2       |
| 1,1-DICHLOROETHANE            | ND         | 5        | .2       |
| 1,1-DICHLOROETHENE            | ND         | 5        | .2       |
| 1,2-DICHLOROETHANE            | ND         | .5       | .2       |
| 1,2-DICHLOROPROPANE           | ND         | 5        | . 2      |
| METHYL ETHYL KETONE           | ND         | 50       | .2       |
| 2-HEXANONE                    | ND         | 50       | 5        |
| 4-METHYL-2-PENTANONE (MIBK)   | ND         | 50       | 5        |
| ACETONE                       | ND         | 50       | 5        |
| BENZENE                       | ND         | .5       | .2       |
| BROMODICHLOROMETHANE          | ND         | 5        | .2       |
| BROMOFORM                     | ND         | 5        | .3       |
| BROMOMETHANE                  | ND         | 5        | .2       |
| CARBON TETRACHLORIDE          | ND         | .5       | .2       |
| CHLOROBENZENE                 | ND         | 5        | .2       |
| CHLOROETHANE                  | ND         | 5<br>5   | .2       |
| CHLOROFORM                    | ND         |          | .2       |
| CHLOROMETHANE                 | ND         | 5        | .2       |
| CIS-1,2-DICHLOROETHENE        | ND         | 5        | .2       |
| CIS-1,3-DICHLOROPROPENE       | ND         | .5       | .2<br>.2 |
| DIBROMOCHLOROMETHANE          | ND         | 5        | .2       |
| ETHYLBENZENE                  | ND         | .5       | .2       |
| XYLENES<br>MTBF               | ND         | 5        | .2       |
|                               | ND         | 1        | .2       |
| METHYLENE CHLORIDE<br>STYRENE | ND         | 5        | .5       |
| TETRACHLOROETHYLENE           | ND         | 5        | .2       |
| TOLUENE                       | ND         | 5        | .2       |
| TRANS-1,2-DICHLOROETHENE      | ND         | .5       | .2       |
| TRANS-1,3-DICHLOROPROPENE     | ND         | 5        | .2       |
| TRICHLOROETHENE               | ND         | .5       | -2       |
| VINYL ACETATE                 | ND         | 5        | .2       |
| VINYL CHLORIDE                | ND         | 50       | .5       |
| TERT-BUTYL ALCOHOL            | ND         | .5       | .2       |
| DIISOPROPYL ETHER             | ND<br>ND   | 20       | 5        |
| ETHYL TERT-BUTYL ETHER        | ND         | 5        | .2       |
| TERT-AMYL METHYL ETHER        | ND         | 5<br>5   | .2       |
| rans more partitle anders     | ND         | Þ        | .2       |
| SURROGATE PARAMETERS          | % RECOVERY | QC LIMIT |          |
|                               |            |          |          |

| SURROGATE PARAMETERS  | % RECOVERY                        | QC LIMIT |
|-----------------------|-----------------------------------|----------|
|                       | AN AND AN AND THE MAY NOT THE THE |          |
| 1,2-DICHLOROETHANE-D4 | 102                               | 65 - 135 |
| TOLUENE-D8            | 100                               | 75 - 125 |
| BROMOFLUOROBENZENE    | 133*                              | 75 - 125 |

R.L.: Reporting limit

\* : Out of QC

E : Exceeded calibration range
B : Found in associated method blank

: Value between R.L. and MDL : Value from dilution analysis

D.O. : Diluted out

SPLP Extraction Date: 02/08/06 17:15

# QC SUMMARIES

Client : SES-TECH Date Collected: NA Project : CAMP PENDLETON, UST SITE 1441
Batch No. : 06A173A Date Received: 02/09/06 Date Extracted: 02/09/06 14:44 Sample ID: MBLK1W Lab Samp ID: V0018190 Date Analyzed: 02/09/06 14:44 Dilution Factor: 1 Lab File ID: RBV218 Matrix : WATER Ext Btch ID: V001B19 % Moisture : NA Calib. Ref.: RAV257 Instrument ID : T-001 

|                             | RESULTS    | RL       | MDL                |
|-----------------------------|------------|----------|--------------------|
| PARAMETERS                  | (ug/L)     | (ug/L)   | (ug/L)             |
|                             |            |          |                    |
| 1,1,1-TRICHLOROETHANE       | ND         | 5        | .2                 |
| 1,1,2,2-TETRACHLOROETHANE   | ND         | 1        | .2                 |
| 1,1,2-TRICHLOROETHANE       | ND         | 5        | .2                 |
| 1,1-DICHLOROETHANE          | ND         | 5        | .2                 |
| 1,1-DICHLOROETHENE          | ND         | 5        | .2                 |
| 1,2-DICHLOROETHANE          | ND         | .5       | .2                 |
| 1,2-DICHLOROPROPANE         | ND         | 5        | .2                 |
| METHYL ETHYL KETONE         | ND         | 50       | .2                 |
| 2-HEXANONE                  | ND         | 50       | 5                  |
| 4-METHYL-2-PENTANONE (MIBK) | ND         | 50       | 5                  |
| ACETONE                     | ND         | 50       | 5<br>5<br>.2<br>.2 |
| BENZENE                     | ND         | .5       | .2                 |
| BROMODICHLOROMETHANE        | ND         | 5        | .2                 |
| BROMOFORM                   | ND         | 5        | .3                 |
| BROMOMETHANE                | ND         | 5        | .2                 |
| CARBON TETRACHLORIDE        | ND         | .5       | .2                 |
| CHLOROBENZENE               | ND         | 5        | .2                 |
| CHLOROETHANE                | ND         | 5        | .2                 |
| CHLOROFORM                  | ND         | 5<br>5   | .2                 |
| CHLOROMETHANE               | ND         | 5        | .2                 |
| CIS-1,2-DICHLORGETHENE      | ND         | 5        | .2                 |
| CIS-1,3-DICHLOROPROPENE     | ND         | -5       | .2                 |
| DIBROMOCHLOROMETHANE        | ND         | ς        | .2                 |
| ETHYLBENZENE                | ND         | .5       | .2                 |
| XYLENES                     | ND         | 5        | .2                 |
| MTBE                        | ND         | 1        | .2                 |
| METHYLENE CHLORIDE          | ND         | 5        | -5                 |
| STYRENE                     | ND         | 5        | .2                 |
| TETRACHLOROETHYLENE         | ND         | 5        | .2                 |
| TOLUENE                     | ND         | .5       | .2                 |
| TRANS-1,2-DICHLOROETHENE    | ND         | 5        | .2                 |
| TRANS-1,3-DICHLOROPROPENE   | ND         | .5       | .2                 |
| TRICHLOROETHENE             | ND         | 5        | .2                 |
| VINYL ACETATE               | ND         | 50       | .5                 |
| VINYL CHLORIDE              | ND         | .5       | .2                 |
| TERT-BUTYL ALCOHOL          | ND         | 20       | 5                  |
| DIISOPROPYL ETHER           | ND         | 5        | .2                 |
| ETHYL TERT-BUTYL ETHER      | ND         | 5        | .2                 |
| TERT-AMYL METHYL ETHER      | ND         | 5        | .2                 |
| SURROGATE PARAMETERS        | % RECOVERY | QC LIMIT |                    |
|                             |            |          |                    |

. . . . . . . . . . .

103

115

65 - 135

75-125

75 - 125

| R.L.: Reporting limit | .: Reportin | g ເກກາ |
|-----------------------|-------------|--------|
|-----------------------|-------------|--------|

1,2-DICHLOROETHANE-D4

BROMOFLUOROBENZENE

TOLUENE-D8

<sup>\* :</sup> Out of QC

E : Exceeded calibration range
B : Found in associated method blank
J : Value between R.L. and MDL
D : Value from dilution analysis

D.O. : Diluted out

# EMAX QUALITY CONTROL DATA LCS/LCD ANALYSIS

CLIENT:

SES-TECH

PROJECT:

CAMP PENDLETON, UST SITE 1441

BATCH NO.:

06A173A

METHOD: SW 1312/5030B/8260B

MATRIX: DILUTION FACTOR: 1

WATER

% MOISTURE:

LAB SAMP ID: LAB FILE ID:

SAMPLE ID:

MBLK1W V001B19Q

V001B19L RBV215

1

V001B19C

**RBV216** 

RBV218 DATE EXTRACTED: 02/09/0614:44

02/09/0612:49

1

02/09/0613:28 02/09/0614:44 02/09/0612:49 02/09/0613:28 DATE COLLECTED: NA

DATE RECEIVED: 02/09/06

PREP. BATCH: CALIB. REF:

DATE ANALYZED:

V001B19 RAV257

V001B19 RAV257

V001B19 RAV257

ACCESSION:

| PARAMETER  | BLNK RSLT<br>(ug/L)        | SPIKE AMT (ug/L)           | BS RSLT<br>(ug/L)            | BS<br>% REC                   | SPIKE AMT (ug/L)           | BSD RSLT<br>(ug/L)                   | BSD<br>% REC                 | RPD (%)          | QC LIMIT   | MAX RPD                          |
|--|----------------------------|----------------------------|------------------------------|-------------------------------|----------------------------|--------------------------------------|------------------------------|------------------|--|----------------------------------|
| 1,1-Dichloroethene<br>Benzene<br>Chlorobenzene<br>Toluene<br>Trichloroethene | ND<br>ND<br>ND<br>ND<br>ND | 10<br>10<br>10<br>10<br>10 | 10.1<br>9.74<br>10.3<br>9.59 | 101<br>97<br>103<br>96<br>110 | 10<br>10<br>10<br>10<br>10 | 9.91<br>9.79<br>10.3<br>9.63<br>11.1 | 99<br>98<br>103<br>96<br>111 | 2<br>1<br>0<br>0 | 75 - 125<br>75 - 125<br>75 - 125<br>75 - 125<br>75 - 125<br>75 - 125 | 20<br>20<br>20<br>20<br>20<br>20 |

| SURROGATE PARAMETER   | SPIKE AMT<br>(ug/L) | BS RSLT<br>(ug/L) | BS<br>% REC | SPIKE AMT (ug/L) | BSD RSLT<br>(ug/L) | BSD<br>% REC | QC LIMIT |
|-----------------------|---------------------|-------------------|-------------|------------------|--------------------|--------------|----------|
| 1,2-Dichloroethane-d4 | 10                  | 9.2               | 92          | 10               | 9.21               | 92           | 65-135   |
| Toluene-d8            | 10                  | 10.3              | 103         | 10               | 10.5               | 105          | 75-125   |
| Bromofluorobenzene    | 10                  | 10.9              | 109         | 10               | 10.9               | 109          | 75-125   |

#### SW 1312/5030B/8260B SPLP VOLATILE ORGANICS BY GC/MS

Client : SES-TECH
Project : CAMP PENDLETON, UST SITE 1441 Date Collected: NA Date Received: 02/09/06 Batch No. : 06A173A Date Extracted: 02/09/06 15:23 Sample ID: MBLK1S Date Analyzed: 02/09/06 15:23 Lab Samp ID: SLB001SB Dilution Factor: 1 Lab File ID: RBV219 : WATER Matrix Ext Btch ID: V001B19 % Moisture : NA Calib. Ref.: RAV257 Instrument ID : T-001 

| PARAMETERS   | RESULTS<br>(ug/L) | RL<br>(ug/L) | MDL<br>(ug/L) |
|--|-------------------|--------------|---------------|
| 8 4 4 99550000000000000000000000000000000  |                   |              |               |
| 1,1,1-TRICHLOROETHANE  | ND                | 5            | .2            |
| 1,1,2,2-TETRACHLOROETHANE  | ND                | 1            | .2            |
| 1,1,2-TRICHLOROETHANE  | ND                | 5            | .2            |
| 1,1-DICHLOROETHANE   | ND                | 5            | .2            |
| 1,1-DICHLOROETHENE   | , ND              | 5            | .2            |
| 1,2-DICHLOROETHANE   | ND                | .5           | .2            |
| 1,2-DICHLOROPROPANE  | ND                | 5            | .2            |
| METHYL ETHYL KETONE  | ND                | 50           | .2            |
| 2-HEXANONE   | ND                | 50           | 5             |
| 4-METHYL-2-PENTANONE (MIBK)  | ND                | 50           | 5             |
| ACETONE  | ND                | 50           | 5             |
| BENZENE  | ND                | .5           | .2            |
| BROMODICHLOROMETHANE   | ND                | 5            | .2            |
| BROMOFORM  | ND                | 5            | .3            |
| BROMOMETHANE   | ND                | 5            | .2            |
| CARBON TETRACHLORIDE   | ND                | .5           | .2            |
| CHLOROBENZENE  | ND                | 5            | .2            |
| CHLOROETHANE   | ND                | 5            | .2            |
| CHLOROFORM   | ND                | 5            | .2            |
| CHLOROMETHANE  | ND                | 5            | .2            |
| CIS-1,2-DICHLOROETHENE   | ND                | 5            | .2            |
| CIS-1,3-DICHLOROPROPENE  | ND                | .5           | .2            |
| DIBROMOCHLOROMETHANE   | ND                | 5            | .2            |
| ETHYLBENZENE   | ND                | ,5           | .2            |
| XYLENES  | ND                | 5            | .2            |
| MTBE   | ND                | 1            | .2            |
| METHYLENE CHLORIDE   | ND                | 5            | .5            |
| STYRENE  | ND                | 5            | .2            |
| TETRACHLOROETHYLENE  | ND                | 5            | .2            |
| TOLUENE  | ND                | .5           | .2            |
| TRANS-1,2-DICHLOROETHENE   | ND                | 5            | .2            |
| TRANS-1,3-DICHLOROPROPENE  | ND                | .5           | .2            |
| TRICHLOROETHENE  | ND                | 5            | .2            |
| VINYL ACETATE  | ND                | 50           | .5            |
| VINYL CHLORIDE   | ND                | .5           | .2            |
| TERT-BUTYL ALCOHOL   | ND                | 20           | 5             |
| DIISOPROPYL ETHER  | ND                | 5            | .2            |
| ETHYL TERT-BUTYL ETHER   | ND                | 5            | .2            |
| TERT-AMYL METHYL ETHER   | ND                | 5            | .2            |
| 7 1 mm 1 1 1 mm 1 1 1 mm 1 1 1 mm 1 1 1 mm 1 1 1 mm 1 1 1 mm 1 1 mm 1 1 mm 1 1 mm 1 1 mm 1 1 mm 1 1 mm 1 m | NO.               | J            | . 2           |
| CURROCATE DARAMETERO   | 6/ DEDOUGNY       |              |               |

| SURROGATE PARAMETERS  | % RECOVERY | QC LIMIT |
|-----------------------|------------|----------|
|                       | *****      |          |
| 1,2-DICHLOROETHANE-D4 | 96         | 65-135   |
| TOLUENE-D8            | 104        | 75 - 125 |
| BROMOFLUOROBENZENE    | 118        | 75 - 125 |

R.L.: Reporting limit

\* : Out of QC

E : Exceeded calibration range
B : Found in associated method blank
J : Value between R.L. and MDL
O : Value from dilution analysis

D.O. : Diluted out

### INITIAL CALIBRATION

#### VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK BROMOFLUOROBENZENE (BFB)

Lab Name: EMAX Inc Lab Code: EMXT

Case No.:

Contract: CAMP PENDLETON, UST SITE 1441

Lab File ID: RAV251

SAS No.: SDG No.: 06A173A BFB Injection Date: 01/25/06

BFB Injection Time : 12:10

Instrument ID: T-001 GC Column:RTX502.2ID:0.32mm (mm)

Heated Purge: (Y/N) N

|       |                                    | % RELATIVE      |
|-------|------------------------------------|-----------------|
| m/e   | ION ABUNDANCE CRITERIA             | ABUNDANCE       |
| ===== |                                    |                 |
| 50    | 15.0 - 40.0% of mass 95            | 17.96           |
| 75    | 30.0 - 60.0% of mass 95            | 35.63           |
| 95    | Base peak, 100% relative abundance | 100.00          |
| 96    | 5.0 - 9.0% of mass 95              | 6.70            |
| 173   | Less than 2.0% of mass 174         | 0.00( 0.0)1     |
| 174   | Greater than 50% of mass 95        | 82.05           |
| 175   | 5.0 - 9.0% of mass 174             | 5.27( 6.4)1     |
| 176   | 95.0 - 101.0% of mass 174          | 78.29( 95.4)1   |
| 177   | 5.0 - 9.0% of mass 176             | 4.82( 6.2)2     |
|       |                                    |                 |
|       | 1-Value is % mass 174 2-Value      | e is % mass 176 |

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

|    | EPA        | LAB                                     | LAB       | DATE     | TIME     |
|----|------------|---|-----------|----------|----------|
|    | SAMPLE NO. | SAMPLE ID                               | FILE ID   | ANALYZED | ANALYZED |
|    |            | ======================================= | ========= | =======  | ======== |
| 1  | VSTD0.3    | V001A2501                               | RAV252    | 01/25/06 | 12:51    |
| 2  | VSTD0.5    | V001A2502                               | RAV253    | 01/25/06 | 13:29    |
| 3  | VSTD01     | V001A2503                               | RAV254    | 01/25/06 | 14:07    |
| 4  | VSTD02     | V001A2504                               | RAV255    | 01/25/06 | 14:45    |
| 5  | VSTD05     | V001A2505                               | RAV256    | 01/25/06 | 15:23    |
| 6  | VSTD010    | V001A2506                               | RAV257    | 01/25/06 | 16:25    |
| 7  | VSTD020    | V001A2507                               | RAV258    | 01/25/06 | 17:03    |
| 8  | VSTD030    | V001A2508                               | RAV259    | 01/25/06 | 17:41    |
| 9  | VSTD040    | V001A2509                               | RAV260    | 01/25/06 | 18:19    |
| 10 | VSTD050    | V001A2510                               | RAV262    | 01/25/06 | 19:33    |
| 11 | VSTD010    | IV001A2501                              | RAV265    | 01/25/06 | 21:27    |
|    |            |   |           | -        |          |

page 1 of 1

FORM V VOA

OLM02.0

| M IDX  | Parameters   | RAV252  | 13:25<br>RAV253  | 14:07<br>RAV254   | 14:45<br>RAV255                                     | 15:23<br>RAV258   | 16:25<br>RAV257  | 17:03<br>RAV258   | rAV259  | 18:48<br>RAV260   | 19:33<br>RAV262  | Av_RRF   | %_RSD  | Av_R   |
|--|--|---|--|---|---|---|--|---|---|---|--|--|--|--|
| -000000  | 1.4-DIFLUOROBENZENE Dichlorodifluoromethane Chloromethane Vinyl chloride Bromomethane Chloroethane Trichlorofluoromethane sec-Propyl alcohol   | 0.313<br>0.381<br>0.297<br>0.241<br>0.357   | 0.332<br>0.375<br>0.327<br>0.267                             | 0.35741<br>0.35741<br>0.401<br>0.401                          | 0.3255<br>0.3255<br>0.3255<br>0.3255<br>0.462       | 0-3810<br>0-3810<br>0-3320<br>0-1320<br>0-429   | 0.3085<br>32247<br>0.3247<br>0.325<br>0.463  | 0.383<br>0.385<br>0.385<br>0.285<br>0.461   | 0.37185<br>0.37185<br>0.27880<br>0.439  | 0.369   | 0.3575<br>0.3741<br>0.3741<br>0.3745<br>0.3755   | 0.3337.7023  | 7:37<br>2877<br>124:37<br>148:37   | 1177777445   |
| 2 10 2 13  |  | 1   | 0.243  | 0.018<br>0.256<br>0.568<br>0.009                              | 0.025<br>0.025<br>0.0595<br>0.008                   | 0.023   | 0.019<br>0.035<br>0.556<br>0.010   | 0.020<br>0.0325<br>0.575<br>0.010   | 0.020   | 0.0248<br>0.0328<br>0.009   | 0.023<br>0.033<br>0.493<br>0.010   | 0.000  | 17.474   | 055564   |
| W 10 M   | Acetonitfile Iodomethane Methylene chloride Carbon disulfide Acrylonitrile Acrylonitrile   | 1.065   | 0.241<br>1.166<br>8.939                                      | 0 - 274<br>0 - 277<br>0 - 275<br>0 - 248                      | 0.25  | 0 - 297<br>9 - 526<br>9 - 948   | 0.282<br>0.475<br>0.424<br>0.948   | 0.377<br>0.377<br>1.186   | 0.392<br>0.441<br>0.948   | 0.400<br>0.400<br>0.087<br>0.044  | 0.386<br>0.387<br>0.047  | 0.000<br>0.327<br>0.5133<br>0.044  | 18.73<br>20.16<br>13.69  | 0000777  |
| N NAVANA   | trans-1,2-Dichloroethene<br>isopropyl ether (DIPE)<br>yinyl acetate<br>1,1-Dichloroethane<br>tert-Butyl ethyl ether (ETBE)   | 0.437<br>0.858<br>0.187<br>0.410  | 0 506<br>0 966<br>0 587<br>0 521                             | 0 511<br>0 228<br>0 234<br>0 575                              | 0 5457<br>0 12673<br>0 12673<br>0 12673             | 50840<br>5040<br>6055<br>6055<br>6055<br>6055<br>6055<br>6055<br>60   | 0 502<br>0 263<br>0 683<br>0 683   | 8887.67047.885<br>675.67.45.654<br>0000-000000  | 75767   | 753<br>2643<br>2643<br>2655<br>2655<br>2655<br>2655<br>2655<br>2655<br>2655<br>265  | 74825455<br>74825455<br>7482555  | 0336<br>7404<br>10254<br>00554<br>00554  | 00007-609<br>100-98  | 7 8888888  |
| N  | tert-Butyl alcohol Acetonitrile Iodomethane Methylene chloride Carbon disulfide Acrylonitrile tert-Butyl methyl ether (MTBE) trans-1,2-Dichloroethene isopropyl ether (DIPE) Vinyl acetate 1,1-Dichloroethane fert-Butyl ethyl ether (ETBE) 2-Butanone 2,2-Dichloropropane cis-1,2-Dichloroethene tert-Butyl formate (TBF) Chloroform Bromochloromethane letrahydrofuran 1,1-Trichloroethane tert-Amyl methyl ether (TAME) 1,2-Dichloroethane 1,2-Dichloroethane 1,1-DICHLOROETHANE 1,1-DICHLOROETHANE 1,1-DICHLOROETHANE 1,2-Dichloroethane Garbon tetrachloride 1,2-Dichloroethane Bénzene | 0:238<br>8:238  | 8:337<br>8:537<br>8:267                                      | 0.526   | 0.584<br>0.584<br>0.551                             | 0.541<br>0.541<br>0.582   | 0.538<br>0.533<br>0.528  | 0.545<br>0.545<br>0.526<br>0.576  | 00.55248<br>00.55248<br>00.55248  | 0.336<br>0.501<br>0.248<br>0.936  | 0:469<br>0:469<br>0:461  | 0.554<br>0.554<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550  | 55005<br>0050<br>0050<br>0050  | 0000<br>0000<br>0000<br>0000<br>0000<br>0000<br>0000<br>0000<br>0000 |
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| 43   | 1,2-Dichloropropane  | 77477774<br>774777774<br>774777774  | 2018<br>2018<br>2018<br>2018<br>2018<br>2018<br>2018<br>2018 | 91575<br>91575<br>91575<br>9157<br>9157<br>9157<br>9157<br>91 | 0.425<br>0.375<br>0.425<br>0.425                    | 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| 447-61760  | 000702   |
| 2 456789   | Dibromomethane 4-Methyl-2-pentanone 2-Chlofoethyl vinyl ether cis-1,3-Dichloropropene ioluene-d8 loluene-d8  | 0.124   | 0.415<br>1.745   | 0.450   | 0:148<br>9:468<br>1:702                             | 0:154<br>0:001<br>0:485<br>1:331  | 2-197<br>0-198<br>0-4378<br>1-557  | 0.182<br>0.003<br>0.513<br>1.580  | 27.35.08<br>20.09.68<br>20.09.68<br>20.09.68<br>20.09.68  | 0:176<br>0:003<br>0:487<br>1:471  | 0.170<br>0.071<br>0.471<br>1.405   | 0:137<br>0:033<br>0:433<br>1:617   | 20000000000000000000000000000000000000   | 100007-80<br>100007-80   |
| 2  | loluene-d8 Toluene Ethyl methacrylate trans-13-Dichloropropene 1,1,2-Trichloroethane 2-Hexanone 1,3-Dichloropropane Tétrachloroethene Dibromochloromethane 1,2-Dibromochlane 1,2-Dibromochlane 1-Chlorohexane Chloroberzene  | 0.180<br>0.176<br>0.283<br>0.316  | 0.132<br>0.205<br>0.349                                      | 0.221<br>0.221<br>0.352<br>0.358                              | 77776844<br>77776844<br>77776844<br>77776844        | 00.007<br>00.007<br>00.007<br>00.007<br>00.007<br>00.007  | 0:37<br>0:37<br>0:08<br>0:38<br>0:38<br>0:38<br>0:38<br>0:38<br>0:38<br>0:38   | 9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9   | 00:34<br>00:34<br>00:34<br>00:34<br>00:34   | 00000<br>00000<br>00000   | 00000000000000000000000000000000000000   | 00.0964<br>00.0964<br>00.0964  | 2007<br>2007<br>2007<br>2007<br>2007<br>2007   | 2445<br>4380<br>15   |
| 2  | 1,2-D toromoethane 1,2-D toromoethane 1-Chlorohexane Chlorobenzene 1,1,2-Tetrachloroethane Ethylbenzene  | 788<br>773<br>773<br>773<br>773<br>773<br>773<br>773<br>773<br>773  | 7.552<br>0.552<br>0.2532<br>1.728                            | 0 263<br>0 260<br>0 278<br>0 278<br>1 788                     | 00-01-00-00-00-00-00-00-00-00-00-00-00-0            | 0 285<br>0 671<br>0 286<br>1 793  | 0 - 257<br>0 - 257<br>0 - 258<br>0 - 258   | 058300<br>494900<br>00000   | 4038<br>4038<br>4008<br>4008<br>4008<br>4008<br>4008<br>4008  | 00000000000000000000000000000000000000  | 07487<br>07487<br>07487<br>07487<br>07487<br>07487<br>07487  | 0.605  | 171<br>173<br>173<br>173<br>173<br>173<br>173<br>173<br>173<br>173                   | 70000  |
| 2 000000   |  | 1.745<br>0.745<br>4.0944<br>40.0448   | 1:3/5<br>0:82<br>4:550<br>0:350                              | 0:917<br>0:917<br>0:354                                       | 1.719<br>0.994<br>4.963<br>0.423                    | 1:203<br>1:003<br>4:468   | 4:534<br>0:433   | 4.565<br>4.565  | 4:368<br>4:368  | 4-515<br>0-440  | 1:033<br>1:00<br>4:277<br>0:427  | 1:320<br>0:364<br>4:545  | 10.87<br>10.87<br>50.84  | 17.55<br>17.65<br>17.88<br>18.32                                     |
| 28<br>70<br>72<br>73   | Soprobytenzene<br>  Bromoform  | 5.533   | 5.861<br>0.273   | 7.588488<br>0.2588488<br>0.2488<br>1.044                      | 7 - 257<br>0 - 257<br>0 - 253<br>1 - 202            | 0 - 175<br>0 - 366<br>0 - 951   | 7 - 226<br>0 - 380<br>0 - 075<br>0 - 079<br>0 - 261  | 7 955<br>0 975<br>0 977<br>0 962  | 01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358<br>01358 | 7:363<br>0:081<br>5:862   | 0 0830<br>0 378<br>0 288<br>0 288<br>0 288   | 0707<br>0707<br>070057<br>070057   | 05007420<br>10007420   | 0800000<br>080000000000000000000000000000                            |
| 745<br>67<br>78  | 1,3,3-1 rimetnytbenzene<br>2-Chlorotoluene<br>4-Chlorotoluene<br>tert, Butylbenzene<br>1,2,4-1 rimethylbenzene<br>sec-Butylbenzene   | 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|  | 30000000000000000000000000000000000000                        | 247.47.44<br>247.47.44<br>247.47.44<br>247.47.47.44 | 377446<br>40084676<br>37747767  | 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| 47557915<br>4755745  | 4777<br>4777<br>6046<br>6046<br>6046<br>6046<br>6046<br>6046                         | 19.365<br>25.59<br>20.54   |
| (0000000000000000000000000000000000000   | Bromopenzene 1,3,5-Trimethylbenzene 2-Chlorotoluene 4-Chlorotoluene tert-Butylbenzene 1,2-4-Trimethylbenzene sec-Butylbenzene p-Isopropyltoluene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,2-Dichlorobenzene   | 1.416   | 1.438<br>1.65168<br>1.443                                    | 7.780<br>7.780<br>2.765<br>1.546                              | 1 875<br>2 715<br>1 533                             | 74000000000000000000000000000000000000  | 7  | 0/41/7/2022/2019/00/00/4/2022/2019/2022/2019/2022/2019/2022/2019/2022/2019/2022/2019/2022/2019/2022/2019/2022/2019/2022/2019/2022/2022  | 04978807-67-477-47-7-0<br>477877-147-7-47-8807-8<br>477877-147-7-47-8807-6<br>1477-1477-147-14807-6   | 2509/8009/800/07-0-0-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1  | 1400087-07-080<br>1747-087-084-186<br>1747-087-084-186   | 0000-17217070000-070-0400000-070-04-000000-070-04-000000-04-000000-04-00000-04-00000-070-07  | 17-4-007-14-007-000-000<br>47-607-17-07-00-000<br>50-601-17-07-05-04<br>1 10-7-05-04 | 9000000111001001<br>9450158090178070<br>9450158090178070             |
| 85<br>867<br>88<br>88<br>Spike   | 1,2,4-Trichloropenzehe ' Hexachlorobutadiene Naphthalene 1,2,3-Trichlorobenzene Amount = Nominal Amount * M  |   | 0:338<br>0.380   | 0:497<br>0:497<br>0:373                                       | 0.082<br>0.568<br>0.422                             | 0:563<br>0:478<br>0:459   | 0.684<br>0.595<br>0.592<br>0.546   | 0.829<br>0.656<br>0.654   | 0.864<br>0.797<br>0.682   | 0:860<br>0:790<br>0:671   | 0.681  | 0.679<br>0.613<br>0.641  | 26.60<br>26.65<br>24.87  | 25.82<br>26.72<br>27.00  |
| Ve_%   | Amount = Nominat Amount 1 M<br>SD : 10.1 Max_xRSD : 32.2   | 2   |  |   |   |   |  |   |   |   |  |  |  |  |

Use Least Square Linear Regression with weighting factor of inverse concentration for comps with % RSD > 15 Resp Ratio = xo + x1 \* Amt Ratio

| Kesp_Katio - Xo , Xi Amt_Katio   |   |  |  |
|--|---|--|--|
| IDX Parameter Acetone 15 Iodomethane 16 Methylene chloride 17 Ietrahydrofuran 18 Ietrahydrofuran 19 Ietrahyd | 0.00770<br>-0.007708<br>-0.007708<br>-0.00876<br>-0.00876<br>-0.00876<br>-0.007677<br>-0.007677 | 10370370370<br>1577037037070<br>1577037037070<br>15770370370<br>15770370370<br>15770370<br>15770370<br>15770370<br>15770370<br>15770370<br>15770370<br>15770370<br>15770370<br>15770370<br>15770370<br>15770370<br>15770370<br>15770370<br>15770370<br>15770370<br>15770370<br>15770370<br>15770370<br>15770370<br>15770370<br>15770370<br>15770370<br>15770370<br>15770370<br>15770370<br>15770370<br>15770370<br>15770370<br>15770370<br>15770370<br>15770370<br>15770370<br>15770370<br>15770370<br>15770370<br>15770370<br>15770370<br>15770370<br>15770370<br>15770370<br>15770370<br>15770370<br>15770370<br>15770370<br>15770370<br>15770370<br>15770370<br>15770370<br>15770370<br>15770370<br>15770370<br>15770370<br>15770370<br>15770370<br>15770370<br>15770370<br>15770370<br>15770370<br>15770370<br>15770370<br>15770370<br>15770370<br>15770370<br>15770370<br>15770370<br>15770370<br>15770370<br>15770370<br>15770370<br>15770370<br>15770370<br>15770370<br>15770370<br>15770370<br>15770370<br>15770370<br>15770370<br>15770370<br>15770370<br>15770370<br>15770370<br>15770370<br>15770370<br>15770370<br>15770370<br>15770370<br>15770370<br>15770370<br>15770370<br>15770370<br>15770370<br>15770370<br>15770370<br>15770370<br>15770370<br>15770370<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>157703<br>15770 | COCOCOCOCOCOCOCOCOCOCOCOCOCOCOCOCOCOCO |

W 1.00

# SECOND SOURCE VERIFICATION

Data File : E:\HPCHEM\1\DATA\06A25\RAV265.D Vial: 15 Vial: 15 Operator: AS Acq On : 25 Jan 2006 9:27 pm Sample : IVO01A2501 10/20/50ppb Misc : 10ppb8260/20KET,AA,THF/50TBA Inst : TO01 Multiplr: 1.00

MS Integration Params: 524INT.P

Method : E:\HPCHEM\1\METHODS\VO01A25.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Thu Jan 26 10:09:44 2006

Response via : Multiple Level Calibration

|  | Compound   | Amount   | Calc.   | %Dev Area% Dev(min)   |
|--|--|--|---|---|
| 1 T T T T T T T T T T T T T T T T T T T      | 1,4-DIFLUOROBENZENE Dichlorodifluoromethane Chloromethane Vinyl chloride                             | 10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>20.000<br>10.000<br>20.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000 | 10.000<br>9.540<br>9.999<br>10.810<br>11.176<br>9.145<br>10.815<br>0.000<br>20.368<br>10.282<br>20.931<br>9.474<br>42.508<br>0.000<br>10.396<br>9.371<br>10.491<br>18.282<br>9.838<br>9.741<br>9.707<br>8.914<br>9.707<br>8.914<br>9.707<br>8.914<br>9.707<br>8.914<br>9.707<br>8.914<br>9.707<br>8.914<br>9.707<br>8.914<br>9.707<br>8.914<br>9.707<br>8.914<br>9.707<br>8.914<br>9.707<br>8.914<br>9.707<br>8.914<br>9.707<br>8.914<br>9.707<br>8.914<br>9.707<br>8.914<br>9.707<br>8.914<br>9.707<br>8.914<br>9.707<br>8.914<br>9.707<br>8.914<br>9.707<br>8.914<br>9.707<br>8.914<br>9.707<br>8.914<br>9.707<br>9.669<br>0.000<br>10.090<br>9.290 | 0 109 0.00 5 97 0.00 0 102 0.00 -8 106 0.00 -12 132 0.00 9 96 0.00 -8 108 0.00 0 0.00 -2 125 0.00 -3 117 0.00 -5 113 0.00 5 102 0.00 15 88 0.00 0 0 0.00 -4 150 0.00 -5 115 0.00 9 95 0.00 2 101 0.00 3 105 0.00 3 105 0.00 3 102 0.00 11 87 0.00 2 106 0.00 -2 105 0.00 14 87 0.00 1 107 0.00 3 104 0.00 0 0 0.00 -1 108 0.00 -1 108 0.00 7 97 0.00 12 102 0.01 2 107 0.00 |
| 35 I<br>36 T<br>37 T<br>38 T<br>39 T<br>40 T | CHLOROBENZENE-D5 1,1-Dichloropropene Carbon tetrachloride 1,2-Dichloroethane Benzene Trichloroethene | 10.000<br>10.000<br>10.000<br>10.000<br>10.000   | 10.000<br>10.057<br>10.569<br>9.691<br>9.914<br>10.757  | 0 105 0.00<br>-1 104 0.00<br>-6 110 0.00<br>3 101 0.00<br>1 106 0.00<br>-8 112 0.00   |

Data File : E:\HPCHEM\1\DATA\06A25\RAV265.D Vial: 15 Operator: AS Vial: 15 Acq On : 25 Jan 2006 9:27 pm Sample : IVO01A2501 10/20/50ppb Misc : 10ppb8260/20KET,AA,THF/50TBA Inst : TO01 Multiplr: 1.00

MS Integration Params: 524INT.P

Method
 : E:\HPCHEM\1\METHODS\VO01A25.M (RTE Integrator)
Title : METHOD 8260 25mls

Last Update : Thu Jan 26 10:09:44 2006 Response via : Multiple Level Calibration

| hidde waters speech science ha  | Compound  | Amount   | Calc.   | %Dev Area% Dev(min)  |
|---|---|--|---|--|
| 41 C, T<br>42 T<br>43 T<br>44 T<br>45 T<br>46 T<br>47 SC, T<br>48 T<br>49 T<br>51 T<br>52 T<br>53 T<br>54 T<br>55 T<br>56 T<br>57 P<br>50 T<br>51 T<br>51 T<br>52 T<br>53 T<br>54 T<br>55 T<br>56 T<br>57 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T<br>58 T | 1,2-Dichloropropane Bromodichloromethane Dibromomethane 4-Methyl-2-pentanone 2-Chloroethyl vinyl ether cis-1,3-Dichloropropene Toluene-d8 Toluene Ethyl methacrylate trans-1,3-Dichloropropene 1,1,2-Trichloroethane 2-Hexanone 1,3-Dichloropropane Tetrachloroethene Dibromochloromethane 1,2-Dibromoethane 1,2-Dibromoethane 1,2-Dibromoethane 1,1,1,2-Tetrachloroethane Ethylbenzene m-Xylene & p-Xylene | 10.000<br>10.000<br>10.000<br>20.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000 | 9.866<br>9.752<br>10.151<br>18.806<br>9.747<br>10.112<br>10.523<br>9.759<br>8.910<br>10.095<br>9.908<br>18.111<br>9.893<br>10.522<br>10.443<br>10.105<br>10.247<br>10.301<br>10.332<br>10.031<br>19.885 | 1 99 0.00 2 98 0.00 -2 103 0.00 6 95 0.01 3 80 0.00 -1 99 0.00 -5 107 0.00 2 107 0.00 11 91 0.00 -1 104 0.00 1 101 0.00 9 96 0.00 1 97 0.00 -5 109 0.00 -4 102 0.00 -1 100 0.00 -2 102 0.00 -3 106 0.00 -0 103 0.00 1 104 0.00 |
| 62 T<br>63 T  | o-Xylene<br>Styrene   | 10.000   | 9.865<br>10.032   | 1 100 0.00   |
| 64 I<br>65 T<br>66 P,T<br>67 P,T<br>68 S<br>69 T<br>71 T<br>72 T<br>73 T<br>74 T<br>75 T<br>76 T<br>77 T<br>78 T<br>79 T<br>80 T  | 1,2-DICHLOROBENZENE-D4 Isopropylbenzene Bromoform 1,1,2,2-Tetrachloroethane 4-Bromofluorobenzene 1,2,3-Trichloropropane trans-1,4-Dichloro-2-butene n-Propylbenzene Bromobenzene 1,3,5-Trimethylbenzene 2-Chlorotoluene 4-Chlorotoluene tert-Butylbenzene 1,2,4-Trimethylbenzene sec-Butylbenzene p-Isopropyltoluene 1,3-Dichlorobenzene  | 10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000   | 10.268<br>9.810<br>11.279   | 0 102 0.00 -14 116 0.00 -1 96 0.00 6 93 0.00 -4 103 0.00 22# 77 0.00 -24# 128 0.00 -1 101 0.00 -4 106 0.00 -5 103 0.00 0 108 0.00 6 93 0.00 6 93 0.00 -3 104 0.00 -3 101 0.00 2 97 0.00 -13 108 0.00 -3 106 0.00               |

<sup>(#) =</sup> Out of Range RAV265.D VO01A25.M Thu Jan 26 10:48:10 2006

Data File : E:\HPCHEM\1\DATA\06A25\RAV265.D Vial: 15 Operator: AS Acq On : 25 Jan 2006 9:27 pm Operator: AS Sample : IVO01A2501 10/20/50ppb Inst : TO01 Misc : 10ppb8260/20KET, AA, THF/50TBA Multiplr: 1.00

MS Integration Params: 524INT.P

Last Update : Thu Jan 26 10:09:44 2006 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min

Max. RRF Dev : 20% Max. Rel. Area : 200%

| ···· ··· ··· ··· ··· ··· ··· ··                              | Compound   | Amount   | Calc.   | %De                                  | v Are   | a% Dev(min)  |
|--|--|--|---|--------------------------------------|---|--|
| 81 T<br>82 T<br>83 T<br>84 T<br>85 T<br>86 T<br>87 T<br>88 T | 1,4-Dichlorobenzene n-Butylbenzene 1,2-Dichlorobenzene 1,2-Dibromo-3-chloropropane 1,2,4-Trichlorobenzene Hexachlorobutadiene Naphthalene 1,2,3-Trichlorobenzene | 10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000 | 10.017<br>10.506<br>10.214<br>9.301<br>8.928<br>9.502<br>8.786<br>8.841 | -0<br>-5<br>-2<br>7<br>11<br>5<br>12 | 104<br>100<br>105<br>100<br>107<br>104<br>107 | 0.00<br>0.00<br>0.00<br>0.00<br>0.01<br>0.00<br>0.00 |

# DAILY CALIBRATION

#### 5A VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK BROMOFLUOROBENZENE (BFB)

Lab Name: EMAX Inc

Lab Code: EMXT Case No.: Lab File ID: RBV212

Instrument ID: T-001

Contract: CAMP PENDLETON, UST SITE 1441 SAS No.: SDG No.: 06A173A BFB Injection Date: 02/09/06 BFB Injection Time: 10:54

GC Column:RTX502.21D:0.32mm (mm)

Heated Purge: (Y/N) N

| m/e               | ION ABUNDANCE CRITERIA  | % RELATIVE<br>ABUNDANCE         |
|-------------------|---|---------------------------------|
| 50<br>75          | 15.0 - 40.0% of mass 95<br>30.0 - 60.0% of mass 95                            | 18.01<br>37.02                  |
| 95<br>96          | Base peak, 100% relative abundance<br>5.0 - 9.0% of mass 95                   | 100.00<br>6.45                  |
| 173<br>174<br>175 | Less than 2.0% of mass 174 Greater than 50% of mass 95                        | 0.00( 0.0)1<br>86.77            |
| 176<br>177        | 5.0 - 9.0% of mass 174<br>95.0 - 101.0% of mass 174<br>5.0 - 9.0% of mass 176 | 6.25( 7.2)1<br>83.52( 96.2)1    |
|                   |   | 5.13( 6.1)2<br>ue is % mass 176 |

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

| EPA  | LAB   | LAB  | DATE   | TIME   |
|--|---|--|--|--|
| SAMPLE NO.   | SAMPLE ID   | FILE ID  | ANALYZED   | ANALYZED   |
| TERRES TO THE TE | CV001A2538<br>V001B19Q<br>V001B19L<br>V001B19C<br>SLB001SB<br>A173-01<br>A173-06<br>A173-09 | RBV214<br>RBV218<br>RBV215<br>RBV216<br>RBV219<br>RBV221<br>RBV221<br>RBV222<br>RBV223 | 02/09/06<br>02/09/06<br>02/09/06<br>02/09/06<br>02/09/06<br>02/09/06<br>02/09/06<br>02/09/06<br>02/09/06 | 12:11<br>14:44<br>12:49<br>13:28<br>15:23<br>16:39<br>17:23<br>18:01 |

page 1 of 1

FORM V VOA

OLM02.0

#### 8A VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMAX Inc Lab Code: EMXT Lab File ID: PAV257

Project: CAMP PENDLETON, UST SITE 1441

SDG No.: 06A173A

Lab File ID: RAV257 Instrument ID: T-001

Date Analyzed: 01/25/06 Time Analyzed: 16:25

GC Column: RTX502.2

ID: 0.32mm (mm) Heated Purge: (Y/N) N

|                  |  | 151   | (DBF)  | DBF) 1S2(   |   | IS3(D  | CB)  |
|------------------|--|---|--|---|---|--|--|
|                  |  | AREA :  | # RT #   | AREA #  | RT #  | AREA #   | RT #   |
| · · · · ·        | 12 HOUR STD UPPER LIMIT LOWER LIMIT SAMPLE ID STANDON VSTD010 MBLK1W | 2572941<br>5145882<br>1286471<br>==================================== | 11.21<br>11.71<br>10.71<br>=======<br>11.24        | 2299080<br>4598160<br>1149540<br>====================================     | 16.44<br>16.94<br>15.94<br>======<br>16.47                  | 841360<br>1682720<br>420680<br>                                    | 22.05<br>22.55<br>21.55<br>======<br>22.08                           |
| 3<br>4<br>5<br>6 | LCS1W<br>LCD1W<br>MBLK1S<br>0003-069<br>0003-074                     | 2346738<br>2440707<br>2520651<br>2654153<br>2466485<br>2496301        | 11.24<br>11.23<br>11.24<br>11.24<br>11.24<br>11.24 | 2123830<br>2020774<br>2018919<br>2057280<br>2143835<br>2107907<br>2024352 | 16.47<br>16.47<br>16.47<br>16.49<br>16.48<br>16.48<br>16.47 | 618436<br>652053<br>659727<br>578475<br>700535<br>696549<br>592118 | 22.08<br>22.08<br>22.08<br>22.08<br>22.08<br>22.08<br>22.08<br>22.08 |

IS1 (DFB) = 1,4-Difluorobenzene

IS2 (CBZ) = Chlorobenzene-d5

IS3 (DCB) = 1,2-Dichlorobenzene-d4

AREA UPPER LIMIT = + 100% of internal standard area

AREA LOWER LIMIT = - 50% of internal standard area

AREA UPPER LIMIT = + 50% of surrogate area AREA LOWER LIMIT = - 50% of surrogate area

# Column used to flag internal standard area values with an asterisk

\* Values outside of QC limits.

page 1 of 1

FORM VIII VOA-8260

1/2000

 Acq On
 : 9 Feb 2006 12:11 pm
 Operator: AS

 Sample
 : CV001A2538 10/20/50ppb
 Inst : T001

 Misc
 : 10ppb8260/20ppbKET-AA/50ppbTBA
 Multiplr: 1.00

MS Integration Params: 524INT.P

Method : E:\HPCHEM\1\METHODS\VO01A25.M (RTE Integrator)
Title : METHOD 8260 25mls

Last Update : Thu Jan 26 10:09:44 2006 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min

Max. RRF Dev: 20% Max. Rel. Area: 200%

| -  | Compound   | Amount   | Calc.  | %Dev Area% Dev(min)  |
|--|--|--|--|--|
| 1 T T T T T T T T T T T T T T T T T T T      | 1,4-DIFLUOROBENZENE Dichlorodifluoromethane Chloromethane Vinyl chloride Bromomethane Chloroethane Trichlorofluoromethane sec-Propyl alcohol Acrolein 1,1,2-Trichloro-1,2,2-trifl Acetone 1,1-Dichloroethene tert-Butyl alcohol Acetonitrile Iodomethane Methylene chloride Carbon disulfide Acrylonitrile tert-Butyl methyl ether (MT trans-1,2-Dichloroethene Isopropyl ether (DIPE) Vinyl acetate 1,1-Dichloroethane tert-Butyl ethyl ether (ETB 2-Butanone 2,2-Dichloropropane cis-1,2-Dichloroethene tert-Butyl formate (TBF) Chloroform Bromochloromethane Tetrahydrofuran 1,1,1-Trichloroethane tert-Amyl methyl ether (TAM 1,2-Dichloroethane-d4 | 10.000<br>10.000<br>10.000<br>-1.000<br>20.000<br>10.000<br>20.000<br>10.000<br>50.000<br>-1.000<br>10.000 | 20.264<br>10.619<br>10.307<br>10.111<br>10.860<br>10.556<br>10.969<br>19.488<br>11.989<br>10.541<br>0.000<br>10.543<br>9.534<br>-0.404<br>11.173 | 0 83 0.03<br>5 74 0.03<br>1 77 0.01<br>-17 87 0.03<br>-23# 110 0.01<br>-4 83 0.03  |
| 35 I<br>36 T<br>37 T<br>38 T<br>39 T<br>40 T | CHLOROBENZENE-D5 1,1-Dichloropropene Carbon tetrachloride 1,2-Dichloroethane Benzene Trichloroethene   |  | 10.000<br>11.167<br>11.906<br>10.197<br>10.539   | 0 79 0.03<br>-12 87 0.01<br>-19 94 0.01<br>-2 80 0.01<br>-5 85 0.03<br>-15 90 0.03 |

<sup>(#) =</sup> Out of Range

MS Integration Params: 524INT.P

Method
 : E:\HPCHEM\1\METHODS\VO01A25.M (RTE Integrator)
Title : METHOD 8260 25mls

Last Update : Thu Jan 26 10:09:44 2006 Response via : Multiple Level Calibration

| *************************************** | Compound                                   | Amount | Calc.            | %Dev           | Area | u% Dev(min) |
|---|--|--------|------------------|----------------|------|-------------|
| 41 C,T                                  | 1,2-Dichloropropane                        | 10.000 | 10.888           | -9             | 83   | 0.03        |
| 42 T                                    | Bromodichloromethane                       |        | 11.193           | -12            | 85   | 0.01        |
| 43 T                                    | Dibromomethane                             | 10.000 | 10.247           | -2             | 78   | 0.03        |
| 44 T                                    | 4-Methyl-2-pentanone                       | 20.000 | 19.776           | 1              | 75   | 0.03        |
| 45 T                                    | 2-Chloroethyl vinyl ether                  | 10.000 | 12.932           | -29#           | 88   | 0.04        |
| 46 T                                    | cis-1,3-Dichloropropene                    | 10.000 | 11.022           | -10            | 82   | 0.03        |
| 47 S                                    | Toluene-d8                                 | 10.000 | 10.351           | -4             | 80   | 0.01        |
| 48 C,T                                  | Toluene                                    | 10.000 | 10.358           | -4             | 86   | 0.03        |
| 49 T                                    | Ethyl methacrylate                         | 10.000 | 9.193            | 8              | 71   | 0.01        |
| 50 T                                    | trans-1,3-Dichloropropene                  | 10.000 | 10.021           | -0             | 78   | 0.01        |
| 51 T                                    | 1,1,2-Trichloroethane                      | 10.000 | 10.416           | -4             | 80   | 0.03        |
| 52 T                                    | 2-Hexanone                                 | 20.000 | 18.451           | 8              | 74   | 0.01        |
| 53 T                                    | 1,3-Dichloropropane                        | 10.000 | 10.162           | -2             | 75   | 0.03        |
| 54 T                                    | Tetrachloroethene                          | 10.000 | 11.172           | -12            | 87   | 0.03        |
| 55 T                                    | Dibromochloromethane                       | 10.000 | 10.746           | -7             | 79   | 0.03        |
| 56 T                                    | 1,2-Dibromoethane                          | 10.000 | 10.333           | -3             | 77   | 0.03        |
| 57 T                                    | 1-Chlorohexane                             | 10.000 | 11.290           | -13            | 85   | 0.03        |
| 58 P                                    | Chlorobenzene                              | 10.000 | 11.290<br>11.085 | -11            | 87   | 0.03        |
| 59 T                                    | 1,1,1,2-Tetrachloroethane                  | 10.000 | 11.217           | -12            | 87   | 0.01        |
| 60 C,T                                  | Ethylbenzene                               | 10.000 | 10.739           | _ 7            | 83   | 0.03        |
| 61 T                                    | m-Xylene & p-Xylene                        | 20.000 | 21.142           | -6             | 83   | 0.03        |
| 62 T                                    | m-Xylene & p-Xylene<br>o-Xylene            | 10.000 | 10.498           | <b>-</b> 5     | 81   | 0.03        |
| 63 T                                    | Styrene                                    | 10.000 | 10.964           | -10            | 82   | 0.03        |
| 64 I                                    | 1,2-DICHLOROBENZENE-D4<br>Isopropylbenzene | 10.000 | 10.000           | 0              | 71   | 0.03        |
| 65 T                                    | Isopropylbenzene                           | 10.000 | 12.216           | -22#           | 87   | 0.03        |
| 66 P,T                                  | Bromoform                                  | 10.000 | 11.558           | -16            | 77   | 0.03        |
| 67 P,T                                  | 1,1,2,2-Tetrachloroethane                  | 10.000 | 10.392           | <del>-</del> 4 | 72   | 0.03        |
| 68 S                                    | 4-Bromofluorobenzene                       | 10.000 | 10.969           | -10            | 76   | 0.01        |
| 69 T                                    | 1,2,3-Trichloropropane                     |        | 9.869            | 1              | 68   | 0.03        |
| 70 T                                    | trans-1,4-Dichloro-2-butene                |        | 9.196            | 8              | 65   | 0.03        |
| 71 T                                    | n-Propylbenzene                            | 10.000 | 11.493           | -15            | 80   | 0.03        |
| 72 T                                    | Bromobenzene                               | 10.000 | 11.724           | -17            | 83   | 0.03        |
| 73 T                                    | 1,3,5-Trimethylbenzene                     | 10.000 | 10.896           | <u>-</u> 9     | 75   | 0.03        |
| 74 T                                    | 2-Chlorotoluene                            | 10.000 | 10.804           | -8             | 82   | 0.03        |
| 75 T                                    | 4-Chlorotoluene                            | 10.000 | 11.270           |                | 78   | 0.03        |
| 76 T                                    | tert-Butylbenzene                          | 10.000 | 11.755           | -18            | 82   | 0.03        |
| 77 T                                    | 1,2,4-Trimethylbenzene                     | 10.000 | 10.520           | <b>-</b> 5     | 72   | 0.03        |
| 78 T                                    | 1,2,4-Trimethylbenzene sec-Butylbenzene    | 10.000 | 11.682           | -17            | 81   | 0.03        |
| 79 T                                    | p-Isopropyltoluene                         | 10.000 | 11.571           | -16            | 77   | 0.03        |
| 80 T                                    | 1,3-Dichlorobenzene                        |        | 11.240           | -12            | 80   | 0.03        |
| ···                                     |  |        |                  | - 1.4          | UU   | V * V 3     |

<sup>(#) =</sup> Out of Range RBV214.D V001A25.M Thu Feb 09 15:15:05 2006 2022 Page 2

Data File : E:\HPCHEM\1\DATA\06B09\RBV214.D Vial: 3 Operator: AS 

 Acq On
 : 9 Feb 2006 12:11 pm
 Operator: AS

 Sample
 : CV001A2538 10/20/50ppb
 Inst : T001

 Misc
 : 10ppb8260/20ppbKET-AA/50ppbTBA
 Multiplr: 1.00

MS Integration Params: 524INT.P

Method : E:\HPCHEM\1\METHODS\VO01A25.M (RTE Integrator)
Title : METHOD 8260 25mls

Last Update : Thu Jan 26 10:09:44 2006 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min

Max. RRF Dev : 20% Max. Rel. Area : 200%

|  | Compound  | Amount   | Calc.   | %Dev                                   | Area                                   | a% Dev(min)  |
|--|---|--|---|--|--|--|
| 81 T<br>82 T<br>83 T<br>84 T<br>85 T<br>86 T<br>87 T | 1,4-Dichlorobenzene n-Butylbenzene 1,2-Dichlorobenzene 1,2-Dibromo-3-chloropropane 1,2,4-Trichlorobenzene Hexachlorobutadiene Naphthalene | 10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000 | 10.948<br>10.920<br>10.791<br>9.392<br>7.989<br>11.949<br>7.059 | <br>-9<br>-8<br>6<br>20#<br>-19<br>29# | 79<br>72<br>77<br>70<br>66<br>92<br>58 | 0.03<br>0.01<br>0.03<br>0.01<br>0.03<br>0.03<br>0.03 |
| 88 T   | 1,2,3-Trichlorobenzene  | 10.000   | 8.004   | 20                                     | 66                                     | 0.03   |

Data File : E:\HPCHEM\1\DATA\06B09\RBV214.D Vial: 3 Operator: AS Acq On : 9 Feb 2006 12:11 pm 

 Acq On
 : 9 Feb 2006 12:11 pm
 Operator: AS

 Sample
 : CV001A2538 10/20/50ppb
 Inst : T001

 Misc
 : 10ppb8260/20ppbKET-AA/50ppbTBA
 Multiplr: 1.00

MS Integration Params: 524INT.P

Method : E:\HPCHEM\1\METHODS\VO01A25.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Thu Jan 26 10:09:44 2006

Response via : Multiple Level Calibration

| **************************************       | Compound   | AvgRF   | CCRF  | %Dev Area% Dev(min)  |
|--|--|---|---|--|
| 1 T T T T T T T T T T T T T T T T T T T      | 1,4-DIFLUOROBENZENE Dichlorodifluoromethane Chloromethane Vinyl chloride Bromomethane Chloroethane Trichlorofluoromethane sec-Propyl alcohol Acrolein 1,1,2-Trichloro-1,2,2-trifl Acetone 1,1-Dichloroethene tert-Butyl alcohol Acetonitrile Iodomethane Methylene chloride Carbon disulfide Acrylonitrile tert-Butyl methyl ether (MT trans-1,2-Dichloroethene Isopropyl ether (DIPE) Vinyl acetate 1,1-Dichloroethane tert-Butyl ethyl ether (ETB 2-Butanone 2,2-Dichloropropane cis-1,2-Dichloroethene tert-Butyl formate (TBF) Chloroform Bromochloromethane Tetrahydrofuran 1,1,1-Trichloroethane tert-Amyl methyl ether (TAM 1,2-Dichloroethane-d4 | 1.000<br>0.365<br>0.399<br>0.311<br>0.253<br>0.192<br>0.423<br>0.000<br>0.022<br>0.237<br>0.036<br>0.547<br>0.009<br>0.000<br>0.327<br>0.515<br>1.133<br>0.044<br>0.330<br>0.493<br>1.006<br>0.241<br>0.597<br>0.549<br>0.054<br>0.054<br>0.549<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.054<br>0.055<br>0.054<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055 | 1.000<br>0.347<br>0.394<br>0.362<br>0.311<br>0.199<br>0.475<br>0.000<br>0.019<br>0.254<br>0.034<br>0.612<br>0.008<br>0.000<br>0.409<br>0.438<br>1.059<br>0.045<br>0.350<br>0.508<br>1.017<br>0.261<br>0.630<br>0.602<br>0.053<br>0.402<br>0.553<br>0.000<br>0.496<br>0.405<br>0.185 | 0 83 0.03 5 74 0.03 1 77 0.01 -16 87 0.03 -23# 110 0.01 -4 83 0.03 -12 85 0.03 0 0# 0.03 14 80 0.03 -7 93 0.03 6 80 0.03 -12 92 0.03 11 70 0.03 0 0# 0.04 -25# 121 0.03 15 77 0.01 7 78 0.03 -2 80 0.03 -6 83 0.01 -3 84 0.03 -1 81 0.03 -8 81 0.01 -6 87 0.03 -1 81 0.03 -8 81 0.01 -6 87 0.03 -1 81 0.03 -1 81 0.03 -2 80 0.03 -1 81 0.03 |
| 35 I<br>36 T<br>37 T<br>38 T<br>39 T<br>40 T | CHLOROBENZENE-D5 1,1-Dichloropropene Carbon tetrachloride 1,2-Dichloroethane Benzene Trichloroethene   |   | 1.000<br>0.179<br>0.483<br>0.297<br>1.511<br>0.440  | 0 79 0.03<br>-12 87 0.01<br>-19 94 0.01<br>-2 80 0.01<br>-5 85 0.03<br>-15 90 0.03   |

<sup>(#) =</sup> Out of Range

MS Integration Params: 524INT.P

Method : E:\HPCHEM\1\METHODS\VO01A25.M (RTE Integrator)
Title : METHOD 8260 25mls

Last Update : Thu Jan 26 10:09:44 2006 Response via : Multiple Level Calibration

|   | Compound   | AvgRF  | CCRF   | %Dev Area% Dev(min)   |
|---|--|--|--|---|
| 41 C, T<br>42 T T T S C, T<br>44 T T S C, T<br>45 T T T T T T T T T T T T T T T T T T T | Bromodichloromethane Dibromomethane 4-Methyl-2-pentanone 2-Chloroethyl vinyl ether cis-1,3-Dichloropropene Toluene-d8 Toluene Ethyl methacrylate trans-1,3-Dichloropropene 1,1,2-Trichloroethane 2-Hexanone 1,3-Dichloropropane Tetrachloroethene Dibromochloromethane 1,2-Dibromoethane 1,2-Dibromoethane 1,1,1,2-Tetrachloroethane Ethylbenzene m-Xylene & p-Xylene o-Xylene | 0.216<br>0.097<br>0.362<br>0.344<br>0.251<br>0.222<br>0.645<br>0.995<br>0.275<br>1.716<br>1.284<br>1.340 | 1.380<br>1.675<br>0.232<br>0.306<br>0.225<br>0.092<br>0.368<br>0.384<br>0.269<br>0.229<br>0.728<br>1.103<br>0.309<br>1.843<br>1.357<br>1.406 | -12 85 0.01 -2 78 0.03 1 75 0.03 -33# 88 0.04 -10 82 0.03 -4 80 0.01 -4 86 0.03 -4 71 0.01 -9 78 0.01 -9 78 0.01 -4 80 0.03 5 74 0.01 -2 75 0.03 -12 87 0.03 -7 79 0.03 -13 85 0.03 -11 87 0.03 -12 87 0.03 -13 85 0.03 -11 87 0.03 -12 87 0.03 -13 85 0.03 -14 87 0.03 -15 81 0.03 |
| 63 T<br>64 I<br>65 T<br>66 P,T<br>67 P,T  | 1,2-DICHLOROBENZENE-D4 Isopropylbenzene Bromoform 1,1,2,2-Tetrachloroethane  | 0.406  | 1.057<br>1.000<br>5.551<br>0.469   | 0 71 0.03<br>-22# 87 0.03<br>-16 77 0.03  |
| 68 S 69 T 70 T 71 T 72 T 73 T 74 T 75 T 76 T 77 T 78 T 79 T 80 T                        | 4-Bromofluorobenzene 1,2,3-Trichloropropane trans-1,4-Dichloro-2-butene n-Propylbenzene Bromobenzene 1,3,5-Trimethylbenzene 2-Chlorotoluene 4-Chlorotoluene tert-Butylbenzene 1,2,4-Trimethylbenzene sec-Butylbenzene p-Isopropyltoluene   | 3.438<br>3.750<br>2.950<br>3.379<br>3.141<br>5.245<br>3.102<br>1.745                                     | 6.126<br>3.590   | 1 68 0.03<br>0 65 0.03  |

<sup>(#) =</sup> Out of Range RBV214.D VO01A25.M Thu Feb 09 15:14:00 2006

Data File : E:\HPCHEM\1\DATA\06B09\RBV214.D 

MS Integration Params: 524INT.P

Method
 : E:\HPCHEM\1\METHODS\VO01A25.M (RTE Integrator)
Title : METHOD 8260 25mls

Last Update : Thu Jan 26 10:09:44 2006 Response via : Multiple Level Calibration

| <del></del>  | Compound   | AvgRF  | CCRF   | %Dev                                    | Areas                                  | B Dev(min)   |
|--|--|--|--|---|--|--|
| 81 T<br>82 T<br>83 T<br>84 T<br>85 T<br>86 T<br>87 T<br>88 T | 1,4-Dichlorobenzene n-Butylbenzene 1,2-Dichlorobenzene 1,2-Dibromo-3-chloropropane 1,2,4-Trichlorobenzene Hexachlorobutadiene Naphthalene 1,2,3-Trichlorobenzene | 1.656<br>3.033<br>1.488<br>0.097<br>0.679<br>0.613<br>0.609<br>0.541 | 1.813<br>3.312<br>1.605<br>0.091<br>0.642<br>0.809<br>0.487<br>0.507 | -9<br>-9<br>-8<br>6<br>5<br>-32#<br>20# | 79<br>72<br>77<br>70<br>66<br>92<br>58 | 0.03<br>0.01<br>0.03<br>0.01<br>0.03<br>0.03<br>0.03<br>0.03 |

## **ANALYTICAL LOGS**

# ☐ EMAX 624 Rev.No. 1 □ ANALYSIS LOG FOR VOLATILES

| - Andrew - Andrews - Andre | -018                  | 01             | <b>a</b>                      | A CONTRACTOR OF THE PROPERTY O |            |  | CONC.  |                |      |      |            |           | 10/01/01  | 000/202   |       |          |          |  |   |  | Date     |               |         |           | ***************************************   | *************************************** | ***************************************  |  |  |    |
|--|-----------------------|----------------|-------------------------------|--|------------|--|--|----------------|------|------|------------|-----------|-----------|-----------|-------|----------|----------|--|---|--|----------|---------------|---------|-----------|---|---|--|--|--|----|
| **************************************   | Book # A01 -018       | Instrument No. | INITIAL CALIBRATION REFERENCE | 1/25/16  | DIMICES    | STANDARDS  | 11)  | 8116 10 d.2. 2 |      | 700  |            | 27.2      | <i></i>   | +         | 6.44. | 12.47    | (II      |  | 06801                                   | Electronic Data Archival   | Location | PV0.1         | LOUI    |           | AND THE REAL PROPERTY AND THE PROPERTY OF THE | 1 1 s J                                 |  |  |  |    |
|  |                       | <b>****</b>    | Z                             | DATE   | ICAL ID    | Today.   | NAME   | CO'C           | מכנ  | חכר  | DCC        | BFB       | IS/SURR.  | LCS       | 1.CS  | TCS      | SOLVENT  | METHANOL   | DATAFILE                                |  |          | A ON A MITTER | HACH    | Comments: |   |   | Analyzed by:   | Date Disposed:   | Disposed By:   |    |
| ☐ EMAX 624 Rev.No. 1   |                       |                | Notes                         | In. Older  |            | AND THE RESIDENCE AND THE PARTY OF THE PARTY | A STATE OF THE PARTY OF THE PAR |                |      |      | (23 4 14 1 | STLT BUIL |           | Mrs Sambo |       | BFB fuel | KK, C.0. | A MARIE TO THE RESIDENCE AND A STREET OF THE PROPERTY OF THE P | *************************************** | AND THE REAL PROPERTY AND THE PROPERTY A |          | © (0 X        |         | (0:18 cm) |   |   |  |  |  |    |
| -VOA   |                       | Matrix         | S W.H.                        |  |            |  |  |                |      |      |            |           | 7,        | 77        |       | >        | \$       | ,  |   | ->   |          | 2             |         | <b>→</b>  |   |   |  |  | 2/9/06   |    |
| II EMAX.CI.P.VOA   |                       |                | HO HO                         | <u> </u>   |            |  |  |                |      |      |            | -         |           |           |       |          |          |  |   | 7  |          | -             | 1       |           |   |   |  |  | 3  |    |
|  | Purge                 | D              | Sample Amount                 |  | 7 m        | TW   |  |                | ->   | 25ml |            |           |           |           |       |          |          |  |   |  |          |               |         |           |   | →                                       |  |  |  |    |
| ON WOO CACH VARIET D   | 5 ml Purgs            |                | Lab Sample ID                 | , , , , , , , , , , , , , , , , , , ,  | 6re01614 / | CVOOLANS 37  | N 86 ↑   | VAD18191 ~     | 7    | 4    | ر<br>ا     | S16001S   | 068047-01 | 26A173-01 | V 7   |          | 2 3      | A 2001 ( -0.1)   | 7                                       | V - 15 V   | Ring 21  | 1 12-1109 90  | 1 -2/M/ | 1 215 1   | Rius  |   | And the second s | ALL PARTIES TO THE REAL PROPERTY OF THE SECURITY The state of the s |    |
|  | EMEMAX-8260 Kev.No. 4 | 21965          | Data<br>File Meno             | rue ivalue   | RBV212     | 243  | 274  | 3)2            | 9/12 | 27.7 | 26         | 244       | 27.0      |           |       |          | 7        | + 72.7   | 7575                                    | m  | Lis      | 22.8          | 22      |           | 182   | V 33V                                   | t of promote of control of the contr |  |  |    |
| , T  | DEMAX                 | Start Date:    | Sample                        | Prep. ID   | 10         | 02   | 03   | 04             | 0.5  | 90   | 07         | 80        | 60        | 101       | =     | 1 5      | 71       |  | 14                                      | 15   | 16       | 7 17          | 18      | 19        | 20  | 21                                      | 22   | 23   | 24   | 25 |
| !  | SOP                   | Karl           |                               |  |            |  |  |                |      |      |            | B         | ATC       | Ж.        |       |          |          | <u>ý</u>   | Vv (                                    | ) ( <b>A</b>   | <b>%</b> | <i>3</i> ,3   |         |           | 21  | 12                                      | <u></u>  |  |  |    |

# ANALYSIS LOG FOR VOLATILES

☐ EMAX-CLP-VOA

☐ EMAX 624 Rev.No. 1 □

| BATCH VO¢(AZ | Prep. ID 01 02 03 03 04 06 06 06 06 06 06 06 06 06 06 06 06 07 07 07 08 08 09 09 09 09 09 09 09 09 09 09 09 09 09 | Data File Name  RAV 756/ 253  254  254  254  256/ 266/ 267  267  267  267  267  267  26 | 1. ab Sample ID  5. P. D. J. M. 1. 9  V. D. D. J. J. J. J. J. J. J. J. J. J. J. J. J. | Sample DF<br>Amount 22/15/16/24 Colored Sept. 15/16/24 Colored Sept. 15 | Matrix S bH-W S | 10 / 10 / 10 / 10 / 10 / 10 / 10 / 10 / | 12.5 (2.5 (2.5 (2.5 (2.5 (2.5 (2.5 (2.5 ( | DATE  I DATE  ICAL ID  NAME  DCC QQA  DCC QQA  DCC QAA  DCC QAA  DCC QAA  LCS QAA  LCS QAA  LCS QAA  LCS QAA  LCS QAA  LCS QAA  LCS QAA  LCS QAA  LCS QAA  LCS QAA  LCS QAA  LCS QAA  LCS QAA  LCS QAA  LCS QAA  LCS QAA  LCS QAA  LCS QAA  LCS GAAA  LCS CAAA    LCS CAAAA  LCS CAAAAA  LCS CAAAAA  LCS CAAAAA  LCS CAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA | Instrument No.    1.25-46   1.25-46   28-44-1   24-7-7   28-7   2 | CONC. CONC. (MALL) 1256 2 256 |
|--------------|---|---|---|---|-----------------|---|---|---|--|---|
| 516          | 15<br>16<br>17<br>18<br>19 - 20<br>20<br>22<br>23<br>23<br>24<br>25   | 265<br>266<br>267<br>8 267  | Wolfarstall   | 12/201  |                 | 12/555 (3/55)                           | (9.6)                                     | DATA FILE  Comments:  Comments:  Analyzed By:  Date Disposed:   | Electronic Data Archival Location  A   | Date  |

# **EXTRACTION LOGS**

| 100                    |                         | 20                |             |   |   | 1   |   |                  | <del></del>  | 1  |           | 1                                       |        | _         |  | - T                                  |   | 7      |       | ļ     | 1                                       | l    | -  | l                                       | }            | 1  | ı            | l           |                   |
|------------------------|-------------------------|-------------------|-------------|---|---|---|---|------------------|--|--|-----------|---|--------|-----------|--|--------------------------------------|---|--------|-------|-------|---|------|----|---|--------------|--|--------------|-------------|-------------------|
| Rook # FSPs.001        | A d LOA a               | Reading           | ſ           |   |   |   |   |                  | W4444444444444444444444444444444444444   | 7  | 20        |   | 0      | 7         | ***************************************  | Criteria                             | 23 + 2                                  |        |       | 1     | 3012                                    |      |    |   |              | 4444   |              |             |                   |
| Boo                    | pH meter                | Value             | 7           | *************************************** | Water                                   |   |   | htion            | ***************************************  | water  | 2/4/2/    | *************************************** | TO III |           | ***************************************  | ature (C)<br>Thermostat              | Setting                                 |        |       |       | 3                                       |      |    |   |              |  | 28           | TW          | 1 mos             |
| 20                     | Calibration of pH meter | ID.               |             |   | Slope                                   | pH meter ID   |   | SPLP Solution    |  | THE STATE OF THE S |           |   | 2      | <b>\</b>  | A CONTRACTOR OF THE PROPERTY O | Koom temperature (C)  Low Thermostat | 27.9                                    | 1      |       |       | 7                                       |      |    | *************************************** |              |  | Prepared Bv: | Checked By: | Extract Location: |
| Time 11:00             |                         | Buffer ID         |             |   | *************************************** | AND THE RESIDENCE OF THE PERSON AND | 100000000000000000000000000000000000000 |                  | L QI   | Hu   | Exp. Date |   | Kotary | Agnator # |  | High                                 | 22.2                                    |        | Ċ     |       | The Cast                                |      |    |   |              | THE RESERVE THE PERSON NAMED IN COLUMN NAMED I |              | . •         | Extra             |
| 19/10/                 |                         |                   |             |   |   |   |   |                  |  |  |           |   |        |           |  |                                      |   |        |       |       | *****                                   |      |    |   |              |  |              |             |                   |
| End Date 2 / 9/06 Time |                         | Notes             |             |   |   |   |   |                  |  |  |           |   |        |           |  |                                      |   |        |       |       | *************************************** |      |    |   |              | ***************************************  |              |             |                   |
| 5/:                    | % Solid                 | in Liquid         | rnase       |   |   |   |   |                  |  |  |           |   |        |           |  |                                      | 2/8/00                                  | 7      |       |       |   |      |    |   |              |  |              |             |                   |
| Time 17:15             |                         | Extract           |             |   |   |   |   |                  |  |  |           |   |        |           |  |                                      | 7                                       |        |       |       |   |      |    |   | -            |  |              |             |                   |
| Start Date 02/08/06    | Extraction              | Solution          | (mm)        | 500                                     | 500                                     | 500   | 500                                     |                  |  |  |           |   |        |           |  |                                      | 1                                       |        |       |       |   |      |    |   |              |  |              |             |                   |
| art Date               | SPLP                    | Fluid<br>Required |             |   |   |   |   |                  |  |  |           |   |        |           |  |                                      |   |        |       |       |   |      |    |   |              | W.   |              |             |                   |
|                        | Sample                  | Amount (9m)       | (Em.)       |   | 25.00                                   | 2501  | 25.02                                   |                  |  |  |           |   |        |           |  |                                      |   |        |       |       |   |      |    |   |              |  |              |             |                   |
| Matrix Soil            | Comple                  | Sample<br>pH      |             |   |   |   |   |                  |  |  |           |   |        |           |  |                                      |   |        |       |       |   |      |    |   |              |  |              |             |                   |
|                        |                         | 0)                |             | - 58                                    | 10 -                                    | 90 -  | 60-                                     |                  |  |  |           |   |        |           |  |                                      |   |        |       |       |   |      |    |   |              |  |              |             |                   |
| EMAX-1312 [            | Lab                     | Sample<br>ID      |             | 518001                                  | 06A 173                                 |   | <b>**</b>                               |                  | William Willia |  |           |   |        |           |  |                                      | *************************************** |        |       |       |   |      |    |   |              |  |              |             |                   |
| -103                   | Sample                  | Prep<br>ED        | <del></del> | 10                                      | 02 6                                    | 63  | 3                                       | 50               | 90   |  | 80        | 8                                       | =      | 11        | 12   | 13                                   | 7                                       | 2      | 16    | 17    | 81                                      | 19   | 20 | <b>.</b>                                | 77           | 23   | 77           | 25          | 26                |
| Method                 |                         |                   |             | L                                       |   |   |   |                  | P  | RE)  | PAF       | AT                                      | IOI    | V B       | AT(  | <br>_H                               | 54                                      | BO     | 013   |       |   |      |    |   |              |  |              |             |                   |
|                        |                         |                   |             |   |   |   |   | $\boldsymbol{E}$ | MA   | X.   | LABO      | RATO                                    | ORIE   | S, IN     | C., 18   | 35 20                                | 5 <sup>th</sup> S                       | treet, | Torra | ance, | CA S                                    | 0501 |    |   | ············ |  |              |             |                   |

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EXTRACTION LOG FOR SPLP(VOLATILES)

#### LABORATORY REPORT FOR

SES - TECH

CAMP PENDLETON, UST SITE 1441

SW 1312/3520C/8270C SIM SPLP SEMI VOLATILE ORGANICS BY GC/MS

SDG#: 06A173A

#### CASE NARRATIVE

CLIENT:

SES-TECH

PROJECT:

**CAMP PENDLETON, UST SITE 1441** 

SDG:

06A173A

#### SW 1312/3520C/8270C SIM SPLP SEMI VOLATILE ORGANICS BY GC/MS

Three (3) soil samples were received on 01/31/06 for SPLP Semi Volatile Organic analysis by Method 1312/3520C/8270C SIM in accordance with USEPA SW846, 3<sup>rd</sup> ed.

#### 1. Holding Time

Analytical holding time was met.

#### 2. Tuning and Calibration

Tuning and calibration were carried out at 12-hour interval. All QC requirements were met.

#### 3. Method Blank

Method blanks were free of contamination at half of the reporting limit.

#### 4. Surrogate Recovery

Recoveries were within QC limit.

#### 5. Lab Control Sample/Lab Control Sample Duplicate

Recoveries were within QC limit.

#### 6. Matrix Spike/Matrix Spike Duplicate

No MS/MSD sample was designated in this SDG.

#### 7. Sample Analysis

Samples were analyzed according to the prescribed QC procedures. All criteria were met.

Napthalene in A173-01 and -09; Acenapthene in A173-06 and -09 were manually reintegrated to correct for improper integration. Chromatograms of before and after manual integrations were kept on file for review.

LAB CHRONICLE SPLP SEMI VOLATILE ORGANICS BY GC/MS

| 2.1.2.2.3.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2. |                                 |                  |       |   |               |         |   |   | \$100 MAX \$240 MP\$ NOT NOT NOT NOT NOT MAX MAX MAX MAX MAX AND AND ADD ADD ADD ADD ADD ADD ADD ADD  |
|--|---------------------------------|------------------|-------|---|---------------|---------|---|---|---|
| Client : SES-TECH                        |                                 |                  |       |   |               |         |   | ON SOS                                  | ***   |
| Project : CAMP PEND                      | : CAMP PENDLETON, UST SITE 1441 | _                |       |   |               |         |   | Instrume                                | Destriment ID . T.ORO   |
|  |                                 |                  |       |   | 2             |         |   | 2                                       | 200 - 1 N 2 |
|  |                                 |                  |       |   |               |         |   |   |   |
|  |                                 |                  |       | ¥                                       | WATER         |         |   |   |   |
| client                                   | Laboratory Dilution             | Dilution         | %     | Analysis                                | Extraction    | Sample  | Calibration Prep.                       | n Prep.                                 |   |
| Sample ID                                | Sample 1D                       | Factor           | Moist | DateTime                                | DateTime      | Data FN | Data FN                                 | Batch                                   | Notes   |
| F  | 1                               | }<br>!<br>!<br>! |       | 1 | <pre>{</pre>  | 1 1 1   | * | 1 1 2 2 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 |   |
| MBLK1W                                   | SVB022WB                        | 1                | NA    | 02/13/0621:24                           | 02/09/0615:30 | RBK 148 | RAK026                                  | SVR022U                                 | Method Rish   |
| LCS1W                                    | SVB022WL                        | -                | NA    | 02/13/0621:43                           | 02/09/0615:30 | RBK149  | RAK026                                  | SVR022W                                 | Tab Control Sample (178)  |
| LCD1W                                    | SVB022WC                        | 1                | NA    | 02/13/0622:02                           | 02/09/0615:30 | RBK150  | RAK026                                  | SVB022W                                 | ICS Dunffreate  |
| MBLK1S                                   | SPB001SB                        | -                | NA    | 02/13/0622:21                           | 02/09/0615:30 | RBK151  | RAK026                                  | SVB022W                                 | Method Blank  |
| 0003-069                                 | A173-01                         | -                | NA    | 02/13/0622:40                           | 02/09/0615:30 | RBK152  | RAK026                                  | SVB022W                                 | Field Sample  |
| 0003-074                                 | A173-06                         | -                | NA    | 02/13/0622:59                           | 02/09/0615:30 | RBK153  | RAK026                                  | SVB022W                                 | Field Sample  |
| 0003-077                                 | A173-09                         | ~                | NA    | 02/13/0623:17                           | 02/09/0615:30 | RBK154  | RAK026                                  | SVB022W                                 | Field Sample  |

FN - Filename % Moist - Percent Moisture

# SAMPLE RESULTS

|                        | RESULTS    | RL       | MDL    |
|------------------------|------------|----------|--------|
| PARAMETERS             | (ug/L)     | (ug/L)   | (ug/L) |
| *****                  |            | ***      |        |
| ACENAPHTHENE           | 1.3        | 1        | .2     |
| ACENAPHTHYLENE         | .26J       | 1        | .2     |
| ANTHRACENE             | ND         | 2        | .2     |
| BENZO(A)ANTHRACENE     | ND         | 2        | .2     |
| BENZO(A)PYRENE         | ND         | 1        | .2     |
| BENZO(B)FLUORANTHENE   | ND         | 1        | .2     |
| BENZO(K)FLUORANTHENE   | ND         | 2        | .2     |
| BENZO(G,H,I)PERYLENE   | ND         | 1        | .2     |
| CHRYSENE               | ND         | 2        | .2     |
| DIBENZO(A,H)ANTHRACENE | ND         | 1        | .2     |
| FLUORANTHENE           | ND         | 2        | .2     |
| FLUORENE               | 3.7        | 2        | .2     |
| INDENO(1,2,3-CD)PYRENE | ND         | 1        | .2     |
| NAPHTHALENE            | 2.5        | 1        | .2     |
| PHENANTHRENE           | 1.8        | 1        | .2     |
| PYRENE                 | ND         | 2        | .2     |
| SURROGATE PARAMETERS   | % RECOVERY | QC LIMIT |        |
|                        |            |          |        |

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50-130

RL: Reporting Limit

TERPHENYL-D14

| PARAMETERS                              | RESULTS<br>(ug/L) | RL<br>(ug/L) | MDL<br>(ug/L) |
|---|-------------------|--------------|---------------|
| *************************************** |                   |              | *****         |
| ACENAPHTHENE                            | 1.3               | 1            | .2            |
| ACENAPHTHYLENE                          | .35J              | 1            | .2            |
| ANTHRACENE                              | ND                | 2            | . 2           |
| BENZO(A)ANTHRACENE                      | ND                | 2            | .2            |
| BENZO(A)PYRENE                          | ND                | 1            | .2            |
| BENZO(B)FLUORANTHENE                    | ND                | 1            | .2            |
| BENZO(K)FLUORANTHENE                    | ND                | 2            | .2            |
| BENZO(G,H,I)PERYLENE                    | ND                | 1            | .2            |
| CHRYSENE                                | ND                | 2            | .2            |
| DIBENZO(A,H)ANTHRACENE                  | ND                | 1            | .2            |
| FLUORANTHÊNE                            | ND                | 2            | .2            |
| FLUORENE                                | 2.5               | 2            | .2            |
| INDENO(1,2,3-CD)PYRENE                  | ND                | 1            | .2            |
| NAPHTHALENE                             | ND                | 1            | .2            |
| PHENANTHRENE                            | .23J              | 1            | .2            |
| PYRENE                                  | ND                | 2            | .2            |
| SURROGATE PARAMETERS                    | % RECOVERY        | QC LIMIT     |               |

SURROGATE PARAMETERS % RECOVERY QC LIMIT
TERPHENYL-D14 79 50-130

RL: Reporting Limit

Client : SES-TECH Date Collected: 01/31/06
Project : CAMP PENDLETON, UST SITE 1441 Date Received: 01/31/06
Batch No. : 06A173A Date Extracted: 02/09/06 15:30
Sample ID: 0003-077 Date Analyzed: 02/13/06 23:17
Lab Samp ID: A173-09 Dilution Factor: 1
Lab File ID: RBK154 Matrix : WATER
Ext Btch ID: SVB022W % Moisture : NA

Calib. Ref.: RAK026 Instrument ID : T-052

|   | RESULTS    | RL       | MDL    |
|---|------------|----------|--------|
| PARAMETERS                              | (ug/L)     | (ug/L)   | (ug/L) |
| *************************************** |            |          |        |
| ACENAPHTHENE                            | .96J       | 1        | . 2    |
| ACENAPHTHYLENE                          | .31J       | 1        | .2     |
| ANTHRACENE                              | ND         | 2        | .2     |
| BENZO(A)ANTHRACENE                      | ИD         | 2        | .2     |
| BENZO(A)PYRENE                          | ND         | 1        | .2     |
| BENZO(B)FLUORANTHENE                    | ND         | 1        | . 2    |
| BENZO(K)FLUORANTHENE                    | ND         | 2        | .2     |
| BENZO(G,H,I)PERYLENE                    | ND         | 1        | .2     |
| CHRYSENE                                | ND         | 2        | .2     |
| DIBENZO(A,H)ANTHRACENE                  | ND         | 1        | 2      |
| FLUORANTHÊNE                            | ND         | 2        | .2     |
| FLUORENE                                | 3.3        | 2        | .2     |
| INDENO(1,2,3-CD)PYRENE                  | ND         | 1        | .2     |
| NAPHTHALENE                             | 1.3        | 1        | .2     |
| PHENANTHRENE                            | 2.3        | 1        | .2     |
| PYRENE                                  | ND         | 2        | .2     |
| SURROGATE PARAMETERS                    | % RECOVERY | QC LIMIT |        |
|   |            |          |        |

| SURROGATE PARAMETERS | % RECOVERY | OC LIMIT |
|----------------------|------------|----------|
| *****                |            |          |
| TERPHENYL-D14        | 67         | 50-130   |

RL: Reporting Limit

# QC SUMMARIES

Client : SES-TECH Date Collected: NA
Project : CAMP PENDLETON, UST SITE 1441 Date Received: 02/09/06
Batch No. : 06A173A Date Extracted: 02/09/06

Date Extracted: 02/09/06 15:30 Date Analyzed: 02/13/06 21:24

Sample ID: MBLK1W Lab Samp ID: SVB022WB Dilution Factor: 1 Matrix : WATER % Moisture : NA Instrument ID : T-052 Lab File ID: RBK148 Ext Btch ID: SVB022W Calib. Ref.: RAK026

|                         | RESULTS | RL     | MDL    |
|-------------------------|---------|--------|--------|
| PARAMETERS              | (ug/L)  | (ug/L) | (ug/L) |
|                         |         |        |        |
| ACENAPHTHENE            | ND      | 1      | .2     |
| ACENAPHTHYLENE          | ND      | 1      | ,2     |
| ANTHRACENE              | ND      | 2      | .2     |
| BENZO(A)ANTHRACENE      | ND      | 2      | .2     |
| BENZO(A)PYRENE          | ND      | 1      | .2     |
| BENZO(B)FLUORANTHENE    | ND      | 1      | .2     |
| BENZO(K)FLUORANTHENE    | ND      | 2      | .2     |
| BENZO(G,H,I)PERYLENE    | ND      | 1      | .2     |
| CHRYSENE                | ND      | 2      | .2     |
| DIBENZO(A, H)ANTHRACENE | ND      | 1      | .2     |
| FLUORANTHENE            | ND      | 2      | .2     |
| FLUORENE                | ND      | 2      | .2     |
| INDENO(1,2,3-CD)PYRENE  | ND      | 1      | .2     |
| NAPHTHALENE             | ND      | 1      | .2     |
| PHENANTHRENE            | ND      | 1      | .2     |
| PYRENE                  | ND      | 2      | .2     |
|                         |         |        |        |

% RECOVERY QC LIMIT SURROGATE PARAMETERS 110 50-130 TERPHENYL-D14

RL: Reporting Limit

#### EMAX QUALITY CONTROL DATA LCS/LCD ANALYSIS

CLIENT:

SES-TECH

PROJECT:

CAMP PENDLETON, UST SITE 1441

BATCH NO.:

06A173A

METHOD:

SAMPLE ID:

LAB SAMP ID:

PREP. BATCH:

CALIB. REF:

SW 1312/3520C/8270C SIM

DILUTION FACTOR: 1

WATER

MBLK1W

1 1

SVB022WL SVB022WC RBK150

LAB FILE ID:

SVB022WB RBK148

SVB022W

RAK026

RBK149 DATE EXTRACTED: 02/09/0615:30 02/09/0615:30 02/09/0615:30

DATE ANALYZED: 02/13/0621:24 02/13/0621:43 02/13/0622:02 SVB022W

RAK026

SVB022W RAK026

NA

DATE COLLECTED: NA
DATE RECEIVED: 02/09/06

% MOISTURE:

ACCESSION:

| PARAMETER              | BLNK RSLT<br>(ug/L) | SPIKE AMT<br>(ug/L) | BS RSLT<br>(ug/L) | BS<br>% REC | SPIKE AMT<br>(ug/L) | BSD RSLT<br>(ug/L) | BSD<br>% REC | RPD<br>(%) | QC LIMIT | MAX RPD |
|------------------------|---------------------|---------------------|-------------------|-------------|---------------------|--------------------|--------------|------------|----------|---------|
| Acenaphthene           | ND                  | 10                  | 5.82              | 58          | 10                  | 5.07               | 51           | 14         | 40-130   | 30      |
| Acenaphthylene         | ND                  | 10                  | 6.31              | 63          | 10                  | 5.75               | 57           | 9          | 40-130   | 30      |
| Anthracene             | ND                  | 10                  | 8.47              | 85          | 10                  | 7.17               | 72           | 17         | 50-130   | 30      |
| Benzo(a)anthracene     | ND                  | 10                  | 7.07              | 71          | 10                  | 6.34               | 63           | 11         | 50-130   | 30      |
| Benzo(a)pyrene         | ND                  | 10                  | 7.34              | 73          | 10                  | 6.7                | 67           | ģ          | 50-130   | 30      |
| Benzo(b)fluoranthene   | ND                  | 10                  | 7.38              | 74          | 10                  | 7.31               | 73           | 1          | 50-130   | 30      |
| Benzo(k)fluoranthene   | ND                  | 10                  | 7.09              | 71          | 10                  | 5.4                | 54           | 27         | 30-150   | 30      |
| Benzo(g,h,i)perylene   | ND                  | 10                  | 7.36              | 74          | 10                  | 6.35               | 63           | 15         | 50-130   | 30      |
| Chrysene               | ND                  | 10                  | 6.4               | 64          | 10                  | 5.59               | 56           | 13         | 50-130   | 30      |
| Dibenzo(a,h)anthracene | ND                  | 10                  | 7.26              | 73          | 10                  | 6.64               | 66           | 9          | 40-140   | 30      |
| Fluoranthene           | ND                  | 10                  | 8.72              | 87          | 10                  | 7.15               | 72           | 20         | 50-130   | 30      |
| Fluorene               | ND                  | 10                  | 6.54              | 65          | 10                  | 5.68               | 57           | 14         | 40~130   | 30      |
| Indeno(1,2,3-cd)pyrene | ND                  | 10                  | 7.3               | 73          | 10                  | 6.54               | 65           | 11         | 30-140   | 30      |
| Naphthalene            | ND                  | 10                  | 5.53              | 55          | 10                  | 4.93               | 49           | 11         | 30-130   | 30      |
| Phenanthrene           | ND                  | 10                  | 7.58              | 76          | 10                  | 6.78               | 68           | 11         | 40-130   | 30      |
| Pyrene                 | ND                  | 10                  | 8.49              | 85          | 10                  | 7.25               | 73           | 16         | 40-130   | 30      |

| SURROGATE PARAMETER | SPIKE AMT<br>(ug/L) | BS RSLT<br>(ug/L) | BS<br>% REC | SPIKE AMT<br>(ug/L) | BSD RSLT<br>(ug/L) | BSD<br>% REC | QC LIMIT |
|---------------------|---------------------|-------------------|-------------|---------------------|--------------------|--------------|----------|
|                     |                     |                   |             |                     |                    |              |          |
| Terphenyl-d14       | 10                  | 11.5              | 115         | 10                  | 11                 | 110          | 50-130   |

Client : SES-TECH
Project : CAMP PENDLETON, UST SITE 1441
Batch No. : 06A173A Date Collected: NA Date Received: 02/09/06

Date Extracted: 02/09/06 15:30 Sample ID: MBLK1S Date Analyzed: 02/13/06 22:21

Dilution Factor: 1

Lab Samp ID: SPB001SB Lab File ID: RBK151 : WATER : NA Matrix Ext Btch ID: SVB022W % Moisture Instrument ID : T-052 Calib. Ref.: RAK026

\_\_\_\_\_\_\_

|                                       | RESULTS     | RL.      | MDL    |
|---------------------------------------|-------------|----------|--------|
| PARAMETERS                            | (ug/L)      | (ug/L)   | (ug/L) |
|                                       | ** ** ** ** |          |        |
| ACENAPHTHENE                          | ND          | 1        | . 2    |
| ACENAPHTHYLENE                        | ND          | 1        | .2     |
| ANTHRACENE                            | ND          | 2        | .2     |
| BENZO(A)ANTHRACENE                    | ND          | 2        | .2     |
| BENZO(A)PYRENE                        | ND          | 1        | .2     |
| BENZO(B)FLUORANTHENE                  | ND          | 1        | .2     |
| BENZO(K)FLUORANTHENE                  | ND          | 2        | .2     |
| BENZO(G,H,I)PERYLENE                  | ND          | 1        | .2     |
| CHRYSENE                              | ND          | 2        | .2     |
| DIBENZO(A, H)ANTHRACENE               | ND          | 1        | .2     |
| FLUORANTHENE                          | ND          | 2        | .2     |
| FLUORENE                              | ND          | 2        | .2     |
| INDENO(1,2,3-CD)PYRENE                | ND          | 1        | .2     |
| NAPHTHALENE                           | ND          | 1        | .2     |
| PHENANTHRENE                          | ND          | 1        | .2     |
| PYRENE                                | ND          | 2        | .2     |
| SURROGATE PARAMETERS                  | % RECOVERY  | QC LIMIT |        |
| · · · · · · · · · · · · · · · · · · · |             |          |        |

50-130 TERPHENYL-D14 116

RL: Reporting Limit

# INITIAL CALIBRATIONS

#### 58 SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: EMAX Inc Lab Code: EMXT

Project: CAMP PENDLETON, UST SITE 1441

SDG No.: 06A173A

Lab File ID: RAK020 Instrument ID: T-052 DFTPP Injection Date: 01/13/06 DFTPP Injection Time: 10:04

|       |                                    | % RELATIVE    |
|-------|------------------------------------|---------------|
| m/e   | ION ABUNDANCE CRITERIA             | ABUNDANCE     |
| ===== |                                    |               |
| 51    | 30.0 - 60.0% of mass 198           | 37.65         |
| 68    | Less than 2% of mass 69            | 0.23( 0.5)1   |
| 69    | Relative abundance of mass 198     | 43.55         |
| 70    | Less than 2.0% of mass 69          | 0.12( 0.3)1   |
| 127   | 40.0 - 60.0% of mass 198           | 44.23         |
| 197   | Less than 1.0% of mass 198         | 0.86          |
| 198   | Base Peak, 100% relative abundance | 100.00        |
| 199   | 5.0 - 9.0% of mass 198             | 5.89          |
| 275   | 10.0 - 30.0% of mass 198           | 17.05         |
| 365   | Greater than 1.00% of mass 198     | 1.70          |
| 441   | Present, but less than mass 443    | 10.98         |
| 442   | Greater than 40.0% of mass 198     | 72.29         |
| 443   | 17.0 - 23.0% of mass 442           | 14.75( 20.4)2 |
| l     |                                    |               |
|       | 1-Value is % mass 69 2-Value       | is % mass 442 |

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

|    | EPA                                     | LAB                                     | LAB      | DATE     | TIME     |
|----|---|---|----------|----------|----------|
|    | SAMPLE NO.                              | SAMPLE ID                               | FILE ID  | ANALYZED | ANALYZED |
|    | ======================================= | ======================================= | ======== | ======== | =======  |
| 1  | SSTD0.15                                | SV52A131                                | RAK021   | 01/13/06 | 11:17    |
| 2  | SSTD0.5                                 | SV52A132                                | RAK022   | 01/13/06 | 11:35    |
| 3  | SSTD01                                  | SV52A133                                | RAK023   | 01/13/06 | 11:54    |
| 4  | SSTD02                                  | SV52A134                                | RAK024   | 01/13/06 | 12:13    |
| 5  | SSTD05                                  | SV52A135                                | RAK025   | 01/13/06 | 12:32    |
| 6  | SSTD010                                 | SV52A136                                | RAK026   | 01/13/06 | 12:51    |
| 7  | SSTD020                                 | SV52A137                                | RAK027   | 01/13/06 | 13:10    |
| 8  | SSTD040                                 | SV52A138                                | RAK028   | 01/13/06 | 13:28    |
| 9  | SSTD080                                 | SV52A139                                | RAK029   | 01/13/06 | 13:47    |
| 10 | SSTD100                                 | SV52A1310                               | RAK030   | 01/13/06 | 14:06    |
| 11 | SSTD010                                 | ISV52A131                               | RAK031   | 01/13/06 | 14:25    |
| İ  |   |   | i        |          |          |

page 1 of 1

FORM V SV

OLM02.0

Instrument ID :TO52

Beginning DateTime :01/13/06 11:17

Spike Units :PPM IC file :RAK026

Column Spec :ZB-5MS ID :0.18MM Ending DateTime :01/13/06 14:06

HPChem Method :SV52A13

|          |                             | .15   | .5    | 1     | 2     | 5     | 10          | 20    | 40       | 80    | 100   |             |       | Ì    |
|----------|-----------------------------|-------|-------|-------|-------|-------|-------------|-------|----------|-------|-------|-------------|-------|------|
|          |                             | 11:17 | 11:35 | 11:54 | 12:13 | 12:32 | 12:51       | 13:10 | 13:28    | 13:47 | 14:06 |             | į     |      |
|          | Parameters                  | ;     | :     |       | :     | ;     | ;           |       | ,        |       | !     | Av_RRF      | %_RSD | AV_R |
| ===<br>1 | <br> 1,4-Dichlorobenzene-d4 | 1     | 1     | 1     | 1     | 1     | ======<br>1 | 1     | ====== 1 | 1     | 1     | =======     | 0     | 2.6  |
| 2        | N-Nitrosodimethylamine      |       |       | 0.627 | 0.924 | 1.156 | 1.253       | 1.265 |          |       |       | 1.045       | 25.94 | !    |
|          | Phenol-d5                   | 1.107 | 1.344 | 1.479 | 1.617 | 1.482 | 1.565       | 1.579 | 1.676    | 1.508 | 1.534 | 1.489       | 10.84 |      |
| 4        | Phenol                      | 0.791 | 1.586 | 1.316 | 1.517 | 1.649 | 1.783       | 2.027 |          |       |       | 1.524       | 25.69 | *    |
| 5        | Bis(2-chloroethyl)ether     | 1.115 | 2.378 | 1.779 | 2.013 | 1.837 | 1.709       | 1.661 |          |       |       | 1.784       | 21.43 | •    |
| 6        | 2-Chlorophenol              | 1.026 | 1.286 | 1.396 | 1.420 | 1.447 | 1.464       | 1.467 |          |       |       | 1.358       | 11.70 | 2.4  |
| 7        | N-Nitroso-di-n-propylamine  | 0.482 | 0.576 | 0.608 | 0.572 | 0.705 | 0.665       | 0.662 |          |       |       | 0.610       | 12.30 | •    |
| 8        | 2,4-Dimethylphenol          | 0.992 | 0.937 | 1.002 | 1.054 | 1.099 | 1.056       | 1.096 |          |       |       | 1.034       | 5.76  | 1    |
| 9        | 2,4-Dichlorophenol          | 0.581 | 0.693 | 0.794 | 0.897 | 0.980 | 1.038       | 1.117 |          |       |       | 0.872       | 22.08 | 4    |
|          | Naphthalene                 | 4.857 | 4.551 | 4.698 | 4.393 | 4.331 | 4.169       | 4.118 |          |       |       | 4.445       | 6.11  | 4    |
| 11       | 4-Chloro-3-methylphenol     | 0.662 | 0.746 | 0.857 | 0.964 | 1.123 | 1.180       | 1.259 |          |       |       | 0.970       | 23.39 | 4.1  |
| 12       | 2-Methylnaphthalene         | 2.251 | 2.165 | 2.429 | 2.440 | 2.562 | 2.492       | 2.552 |          |       |       | 2.413       | 6.26  | 4.2  |
|          | 1-Methylnaphthalene         | 1.919 | 2.009 | 2.205 | 2.154 | 2.126 | 2.014       |       |          |       |       | 2.071       | 4.76  | !    |
| 14       | 2,4,6-Trichlorophenol       |       | 0.292 | 0.339 | 0.404 |       | 0.576       | 0.639 |          |       |       | 0.467       | 30.23 | ŧ.   |
|          | 2,4,5-Trichlorophenol       |       | 0.353 | 0.405 | 0.500 | 0.559 | 0.635       | 0.712 |          |       |       | 0.527       | 25.88 | •    |
|          | Acenaphthylene              | 3.388 | 3.107 | 3.286 | 3.432 | 3.686 | 3.546       | 3.634 |          |       |       | 3.440       | 5.90  | 1    |
|          | Acenaphthene                | 2.537 | 2.053 | 2.071 | 2.020 | 2.046 | 1.962       | 2.119 |          |       |       | 2.116       | 9.07  |      |
| 18       | Fluorene                    | 1.941 | 1.747 | 1.894 | 1,986 | 2,186 | 2.114       | 2,263 |          |       |       | 2.019       | 8.89  | 5.7  |
| 19       | Azobenzene                  | 1.977 | 1.978 | 2.200 | 2.318 | 2.610 | 2.512       | 2.638 |          |       |       | 2.319       | 12.08 | 5.8  |
| 20       | Phenanthrene-d10            | 1     | 1     | 1     | 1     | 1     | 1           | 1     | 1        | 1     | 1     | 1           | 0     |      |
| 21       | Hexachlorobenzene           | 0.373 | 0.393 | 0.402 | 0.407 | 0.377 | 0.345       | 0.328 |          |       |       | 0.375       | 7.86  | 6.2  |
| 22       | Pentachlorophenol           |       | 0.163 | 0.186 | 0.279 | 0.395 | 0.497       | 0.524 |          |       |       | 0.341       | 45.53 | 6.4  |
| 23       | Phenanthrene                | 1.287 | 1.381 | 1.388 | 1.400 | 1.369 | 1.333       | 1.290 |          |       |       | 1.350       | 3.46  | 6.5  |
| 24       | Anthracene                  | 1.147 | 1.230 | 1.225 | 1,241 | 1.328 | 1.269       | 1.240 |          |       |       | 1.240       | 4.36  |      |
| 25 İ     | Fluoranthene                | 0.957 | 1.010 | 1.041 | 1.111 | 1.159 | 1.136       | 1.181 |          |       |       | 1.085       | 7.71  | 7.7  |
| 26       | Pyrene                      | 1.006 | 1.051 | 1.082 | 1.166 | 1.246 | 1.129       | 1.186 |          |       |       | 1.124       | 7.39  | 7.9  |
| 27       | Terphenyl-d14               | 0.425 | 0.439 | 0.465 | 0.505 | 0.535 | 0.523       | 0.547 | 0.521    | 0.506 | 0.458 | 0.492       | 8.62  |      |
| 28 İ     | Perylene-d12                | 1     | 1     | 1     | 1     | 1     | 1           | 1     | 1        | 1     | 1     | 1           | †     | 10.3 |
| 29       | Benzo(a)anthracene          | 1.774 | 1.694 | 1.600 | 1.573 | 1.485 | 1.475       | 1.346 |          |       |       | 1.564       | 9.19  | 9.0  |
| 30       | Chrysene                    | 1.914 | 1.675 | 1.683 | 1.751 | 1.623 | 1.654       | 1.298 |          |       |       | 1.657       | 11.17 | 9.0  |
| 31 İ     | bis(2-Ethylhexyl)phthalate  | 1.403 | 1.459 | 1.569 | 1.728 | 1.771 | 1.871       | 1.664 |          |       |       | 1.638       | 10.37 | 9.1  |
| 32       | Benzo(b)fluoranthene        | 1.487 | 1.479 | 1.413 | 1.443 | 1.542 | 1,788       | 1.567 |          |       |       | 1.531       | 8.17  | 9.9  |
| 33       | Benzo(k)fluoranthene        | 1.432 | 1.531 | 1.575 | 1.671 | 1.660 | 1.389       | 1.558 |          |       |       | 1.545       | 6.86  |      |
| 34       | Benzo(a)pyrene              | 1.219 | 1.292 | 1.552 | 1.571 | 1.590 | 1.558       | 1.527 |          |       |       | 1.473       | 10.25 |      |
|          | Indeno(1,2,3-cd)pyrene      | 3.836 | 3.701 | 3.798 | 3.912 | 4.307 | 4.175       | 4.440 |          |       |       | 4.024       | 7.03  |      |
|          | Dibenzo(a,h)anthracene      | 1.503 | 1.462 | 1.485 | 1.550 | 1.718 | 1.700       | 1.764 |          |       |       | 1.597       | 7.86  |      |
|          | Benzo(g,h,i)perylene        | 3,417 | 3.337 | 3.415 | 3.499 | 3.841 | 3.641       | 3.848 |          |       |       | 3.571       | 5.86  |      |
| 1        | .3,,.,,                     |       |       |       |       |       |             |       | 1        | ì     | 1     | _ • • • • • |       |      |

Ave\_%RSD : 12.6 Max\_%RSD : 45.5

Use Least Square Linear Regression with weighting factor of inverse concentration for comps with  $\%_RSD > 15$  Resp\_Ratio = xo + x1 \* Amt\_Ratio

| IDX | Parameter               | x0       | x1      | CCF    |
|-----|-------------------------|----------|---------|--------|
| 2   | N-Nitrosodimethylamine  | -0.07046 | 1.30590 | 0.9999 |
| 4   | Phenol                  | -0.02540 | 1.90572 | 0.9960 |
| 5   | Bis(2-chloroethyl)ether | 0.00454  | 1.71610 | 0.9972 |
| 9   | 2,4-Dichlorophenol      | -0.01362 | 1.07614 | 0.9981 |
| 11  | 4-Chloro-3-methylphenol | -0.01637 | 1.21611 | 0.9978 |
| 14  | 2,4,6-Trichlorophenal   | -0.02466 | 0.62508 | 0.9976 |
| 15  | 2,4,5-Trichlorophenol   | -0.02495 | 0.68743 | 0.9968 |
| 22  | Pentachlorophenol       | -0.02745 | 0.51690 | 0.9953 |

Vur 1. Not

# SECOND SOURCE VERIFICATION

#### CONTINUE\_CALIBRATION - CALIBRATION VERIFICATION

Instrument ID :TO52

IC\_Beginning DateTime :01/13/06 11:17

Spike Amount :10 PPM CC/CV File :RAK031 IC File :RAK026

Column Spec :ZB-5MS ID :0.18MM IC\_Ending DateTime :01/13/06 14:06

HPChem Method :SV52A13 Date\_Time :01/13/06 14:25

| IDX      | Parameters                 | CC_Con | : -            | . –       | ?     | 1            | ; -    | 1      | %_RSD | _       |        | . –    | Co_Cor |
|----------|----------------------------|--------|----------------|-----------|-------|--------------|--------|--------|-------|---------|--------|--------|--------|
| ===<br>1 | 1,4-Dichlorobenzene-d4     | 10.000 | =====<br> <br> | 168615    | ===== | =====<br>  1 | !      | !      | 0     | ======  | ====== | ====== | ====== |
|          | N-Nitrosodimethylamine     | 10.092 | 0.9            | t .       | ,     | 1            | 1      |        | 1     | -0.0705 | 1.3059 |        | 0.9999 |
|          | Phenol-d5                  | 101072 |                | _,,,,,,,, |       | 1            | 1      | 1      |       | 0.0.05  |        |        | 1      |
|          | Phenol                     | 8.804  | ~12.0          | 278620    | 1.652 | 1.524        | 2.367  | 2.375  | 25.69 | -0.0254 | 1.9057 |        | 0.9960 |
|          | Bis(2-chloroethyl)ether    | 9.924  | -0.8           | 287951    |       |              |        | ,      | 21.43 |         | ,      |        | 0.9972 |
|          | 2-Chlorophenol             | 9,765  | -2.3           | 223615    |       |              |        |        | 11.70 |         |        |        |        |
|          | N-Nitroso-di-n-propylamine | l .    | 13.8           | 116998    |       |              |        | 1      | 12.30 |         |        |        | Ì      |
|          | 2,4-Dimethylphenol         | 9,837  | ŧ I            | 171476    |       |              |        |        | 5.76  |         |        |        | 1      |
|          | 2,4-Dichlorophenol         | 9.493  | <b>1</b>       | 169970    |       | 7            |        | •      |       | -0.0136 | 1.0761 |        | 0.998  |
|          | Naphthalene                | 9.489  | (              | 711318    |       | 1            | ž.     | •      | 6.11  |         |        |        | 1      |
|          | 4-Chloro-3-methylphenol    | 9.350  | -6.5           |           |       | 1            | 4.150  | ,      |       | -0.0164 | 1.2161 |        | 0.9978 |
|          | 2-Methylnaphthalene        | 9,789  | -2.1           | 398292    |       | 1            | !      |        | · :   |         |        |        |        |
|          | 1-Methylnaphthalene        | 10.045 | 0.5            |           |       | •            | •      | :      | 4.76  |         |        |        |        |
|          | 2,4,6-Trichlorophenol      | 8.957  | -10.4          | 90251     |       | !            | •      | 4.525  | 30.23 | -0.0247 | 0.6251 |        | 0.997  |
| ,        | 2,4,5-Trichlorophenol      | 9.265  |                |           |       | E            | •      |        |       | -0.0249 |        |        | 0.9968 |
| •        | Acenaphthylene             | 10,160 |                |           |       | Į.           | 5.075  | •      |       |         |        |        |        |
| 17       | Acenaphthene               | 9.108  | -8.9           | 324913    | 1.927 | 2.116        | 5.233  | 5.227  | 9.07  |         |        |        |        |
| ,        | Fluorene                   | 10.047 | 0.5            |           |       | 1            | t .    |        | 8.89  |         |        |        |        |
| 19       | Azobenzene                 | 9.587  | -4.1           |           | •     | •            | 1      | 5.875  | 12.08 |         |        |        |        |
| 20       | Phenanthrene-d10           | 10.000 | 0              | 305706    | 1     | !            |        |        | 0     |         |        |        |        |
| 21       | Hexachlorobenzene          | 8.994  | -10.1          | 103117    | 0.337 | 0.375        | 6.208  | 6.209  | 7.86  |         |        |        |        |
| •        | Pentachlorophenol          |        | -25,1          | 109902    |       | Ę            |        |        |       | -0.0275 | 0.5169 |        | 0.995  |
|          | Phenanthrene               | 9.757  | -2.4           | 402571    |       |              | t      | 6.599  | 3.46  |         |        |        |        |
| 24       | Anthracene                 | 9.790  | -2.1           | 371092    |       |              |        | 6.644  | 4.36  |         |        |        |        |
| 25       | Fluoranthene               | 9.439  | -5.6           | 313151    |       |              | ,      | 7.704  | 7.71  |         |        |        |        |
| 26       | Pyrene                     | 9.060  | -9.4           | 311255    | 1.018 | 1.124        | 7.908  | 7.908  | 7.39  | į       |        |        |        |
| 27       | Terphenyl-d14              |        |                |           |       |              |        |        |       |         |        |        |        |
| 28       | Perylene-d12               | 10.000 | 0              | 120765    | 1     | 1            | 10.308 | 10.306 | 0     |         |        |        |        |
| 29       | Benzo(a)anthracene         | 10.813 | 8.1            | 204231    | 1.691 | 1.564        | 9.050  | 9.049  | 9.19  |         |        |        |        |
| 30       | Chrysene                   | 11.094 | 10.9           | 221986    | 1.838 | 1.657        | 9.083  | 9.079  | 11.17 | į       |        | İ      |        |
| 31       | bis(2-Ethylhexyl)phthalate | 12.165 | 21.6           | 240602    | 1.992 | 1.638        | 9.175  | 9.174  | 10.37 | į       |        |        |        |
| 32       | Benzo(b)fluoranthene       | 9.728  | -2.7           | 179891    | 1,490 | 1.531        | 9.992  | 9.991  | 8.17  |         |        |        |        |
| 33       | Benzo(k)fluoranthene       | 11.205 | 12.0           | 209069    | 1.731 | 1.545        | 10.017 | 10.014 | 6.86  |         |        |        |        |
| 34       | Benzo(a)pyrene             | 10.232 | 2.3            | 182020    | 1.507 | 1.473        | 10.258 | 10.257 | 10.25 |         |        | İ      |        |
|          | Indeno(1,2,3-cd)pyrene     | 9.512  | -4.9           | •         |       |              |        | 11.114 |       | i       |        | į      |        |
|          | Dibenzo(a,h)anthracene     | 9.359  | -6.4           |           |       |              | 11.133 |        | 7.86  |         |        |        |        |
| t        | Benzo(g,h,i)perylene       | 9.473  | -5.3           | 408555    |       |              |        | 1      | 5.86  |         | į      |        |        |

3015

# DAILY CALIBRATIONS

# 5B SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: EMAX Inc Lab Code: EMXT Project: CAMP PENDLETON, UST SITE 1441

MXT SDG No.: 06A173A

Lab File ID: RBK146 DFTPP Injection Date: 02/13/06 Instrument ID: T-052 DFTPP Injection Time: 20:08

| -     |                                    | % RELATIVE    |
|-------|------------------------------------|---------------|
| m/e   | ION ABUNDANCE CRITERIA             | ABUNDANCE     |
| ===== |                                    |               |
| 51    | 30.0 - 60.0% of mass 198           | 31.11         |
| 68    | Less than 2% of mass 69            | 0.10( 0.3)1   |
| 69    | Relative abundance of mass 198     | 37.57         |
| 70    | Less than 2.0% of mass 69          | 0.13( 0.3)1   |
| 127   | 40.0 - 60.0% of mass 198           | 47.84         |
| 197   | Less than 1.0% of mass 198         | 0.34          |
| 198   | Base Peak, 100% relative abundance | 100.00        |
| 199   | 5.0 - 9.0% of mass 198             | 6.53          |
| 275   | 10.0 - 30.0% of mass 198           | 15.50         |
| 365   | Greater than 1.00% of mass 198     | 1.32          |
| 441   | Present, but less than mass 443    | 10.11         |
| 442   | Greater than 40.0% of mass 198     | 65.99         |
| 443   | 17.0 - 23.0% of mass 442           | 13.77( 20.9)2 |
|       |                                    |               |

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

|   | EPA            | LAB                                     | LAB     | DATE     | TIME     |
|---|----------------|---|---------|----------|----------|
|   | SAMPLE NO.     | SAMPLE ID                               | FILE ID | ANALYZED | ANALYZED |
|   |                | ======================================= |         | ======== | ======== |
| 1 | SSTD010        | CSV52A1313                              | RBK147  | 02/13/06 | 21:06    |
| 2 | MBLK1W         | SVB022WB                                | RBK148  | 02/13/06 | 21:24    |
| 3 | LCS1W          | SVB022WL                                | RBK149  | 02/13/06 | 21:43    |
| 4 | LCD1W          | SVB022WC                                | RBK150  | 02/13/06 | 22:02    |
| 5 | MBLK1S         | SPB001SB                                | RBK151  | 02/13/06 | 22:21    |
| 6 | 0003-069       | A173-01                                 | RBK152  | 02/13/06 | 22:40    |
| 7 | 0003-074       | A173-06                                 | RBK153  | 02/13/06 | 22:59    |
| 8 | 0003-077       | A173-09                                 | RBK154  | 02/13/06 | 23:17    |
|   | <u> дарада</u> |   |         |          |          |

page 1 of 1

FORM V SV

OLM02.0

#### 8B SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMAX Inc Lab Code: EMXT Project:CAMP PENDLETON, UST SITE 1441

Lab Code: EMXT Lab File ID: RAK026 Instrument ID: T-052 SDG No.: 06A173A
Date Analyzed: 01/13/06
Time Analyzed: 12:51

|   |   | IS1(DCB) |         | IS2(NPT)                                |         | IS3(ANT) | <u> </u> |
|---|---|----------|---------|---|---------|----------|----------|
|   |   | AREA #   | RT #    | AREA #                                  | RT #    | AREA #   | RT #.    |
|   | ======================================= | ======== | ======= | =======                                 | ======= | =======  | =======  |
|   | 12 HOUR STD                             | 165847   | 2.61    | 0                                       | 0.00    | 0        | 0.00     |
| Ì | UPPER LIMIT                             | 331694   | 3.11    | 0                                       | 0.50    | 0        | 0.50     |
| Ì | LOWER LIMIT                             | 82924    | 2.11    | 0                                       | -0.50   | 0        | -0.50    |
|   |   |          |         |   |         | =======  | =======  |
|   | SAMPLE ID                               |          |         |   |         |          |          |
|   |   | =======  |         | <u></u>                                 | ======= | ======== | ======   |
| 1 | SSTD010                                 | 169822   | 2.61    | 0                                       | 0.00    | 0        | 0.00     |
| 2 | MBLK1W                                  | 184861   | 2.61    | 0                                       | 0.00    | 0        | 0.00     |
| 3 | LCS1W                                   | 208732   | 2.60    | 0                                       | 0.00    | 0 .      | 0.00     |
| 4 | LCD1W                                   | 239885   | 2.61    | 0                                       | 0.00    | 0        | 0.00     |
| 5 | MBLK1S                                  | 214626   | 2.61    | 0                                       | 0.00    | 0        | 0.00     |
| 6 | 0003-069                                | 112332   | 2.60    | 0                                       | 0.00    | 0        | 0.00     |
| 7 | 0003-074                                | 127607   | 2.60    | 0                                       | 0.00    | 0        | 0.00     |
| 8 | 0003-077                                | 170864   | 2.61    | 0                                       | 0.00    | 0        | 0.00     |
| j |   |          |         | *************************************** |         |          |          |

IS1 (DCB) = 1,4-Dichlorobenzene-d4

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal saturdard area AREA LOWER LIMIT = - 50% of internal standard area RT UPPER LIMIT = +0.50 minutes of internal standard RT RT LOWER LIMIT = -0.50 minutes of internal standard RT

# Column used to flag internal standard area values with an asterisk

page 1 of 1

FORM VIII SV-1

OLM02.0

<sup>\*</sup> Values outside of QC limits.

#### 80 SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMAX Inc Lab Code: EMXT

Project:CAMP PENDLETON, UST SITE 1441

SDG No.: 06A173A

Lab File ID: RAK026 Instrument ID: T-052 Date Analyzed: 01/13/06 Time Analyzed: 12:51

| *   |             | IS4(PHN) |         | IS5(CRY) |        | IS6(PRY) |         |
|-----|-------------|----------|---------|----------|--------|----------|---------|
| ì   |             | AREA #   | RT #    | AREA #   | RT #   | AREA #   | RT #    |
| ĺ   |             | =======  | ======= | -======  | ====== |          | *====== |
| Ì   | 12 HOUR STD | 318992   | 6.58    | 0        | 0.00   | 172970   | 10.31   |
| Ì   | UPPER LIMIT | 637984   | 7.08    | 0        | 0.50   | 345940   | 10.81   |
| ĺ   | LOWER LIMIT | 159496   | 6.08    | 0        | -0.50  | 86485    | 9.81    |
| i   |             | =======  | ======= |          |        |          | ======= |
| Ì   | SAMPLE ID   |          |         |          |        |          |         |
| Ì   |             | ======== | ======= |          |        | ~~~~~~   |         |
| 1   | SSTD010     | 365284   | 6.59    | 0        | 0.00   | 233523   | 10.34   |
| 2   | MBLK1W      | 281508   | 6.58    | 0        | 0.00   | 149251   | 10.33   |
| 3 j | LCS1W       | 365388   | 6.58    | 0        | 0.00   | 234190   | 10.33   |
| 4 İ | LCD1W       | 400655   | 6.59    | 0        | 0.00   | 239416   | 10.34   |
| 5 j | MBLK1S      | 366068   | 6.58    | 0        | 0.00   | 225774   | 10.33   |
| 6   | 0003-069    | 253260   | 6.58    | 0        | 0.00   | 203250   | 10.33   |
| 7 j | 0003-074    | 279051   | 6.59    | 0        | 0.00   | 213656   | 10.33   |
| 8 j | 0003-077    | 330911   | 6.58    | 0        | 0.00   | 237635   | 10.33   |
| Ì   |             |          |         |          |        |          |         |

IS4 (PHN) = Phenanthrene-d10 IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal satudard area AREA LOWER LIMIT = - 50% of internal standard area RT UPPER LIMIT = +0.50 minutes of internal standard RT RT LOWER LIMIT = -0.50 minutes of internal standard RT

# Column used to flag internal standard area values with an asterisk

page 1 of 1

FORM VIII SV-2

OLM02.0

<sup>\*</sup> Values outside of QC limits.

#### Evaluate Continuing Calibration Report

Data File : D:\CHEMDATA\06B13\RBK147.D Vial: 3 Acq On : 13 FEB 2006 21:06 Operator: KV Sample : CSV52A1313 Misc : Inst : TO52 Multiplr: 1.00

MS Integration Params: RTEINT.P

Method
 : C:\HPCHEM\1\METHODS\SV52A13.M (RTE Integrator)
Title : METHOD 8270C SIM GCMS-QP5000

Last Update : Fri Jan 13 14:23:17 2006 Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min

Max. RRF Dev: 20% Max. Rel. Area: 200%

|   | Compound  | Amount   | t Calc.  | %Dev Area% Dev(min)   |
|---|---|--|--|---|
| 1 I<br>2 T<br>3 S T<br>5 T P<br>8 T<br>10 T<br>11 T<br>12 T<br>13 T<br>14 T<br>15 T<br>16 T<br>17 C | 1,4-Dichlorobenzene-d4 N-Nitrosodimethylamine Phenol-d5 Phenol Bis(2-chloroethyl)ether 2-Chlorophenol N-Nitroso-di-n-propylamine 2,4-Dimethylphenol 2,4-Dichlorophenol Naphthalene 4-Chloro-3-methylphenol 2-Methylnaphthalene 1-Methylnaphthalene 2,4,6-Trichlorophenol 2,4,5-Trichlorophenol Acenaphthylene Acenaphthene Fluorene | 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 | 10.000<br>0.000<br>12.162<br>10.857<br>10.256<br>12.363<br>8.047<br>12.851<br>11.991<br>10.275<br>11.360<br>11.282<br>10.449<br>12.147<br>11.983<br>11.218<br>10.521<br>12.159 | 0 102 0.00 100# 0 -1.28# -22# 118 0.02 -9 117 0.03 -3 106 0.00 -24# 117 0.00 20 76 0.00 -29# 129 0.00 -20 126 0.00 -3 112 0.00 -14 119 0.02 -13 112 0.00 -4 110 0.00 -21# 131 0.03 -20 129 -0.01 -12 111 0.00 |
| 19 T  | Azobenzene  | 10.000   | 10.937   | -22# 119  |
| 20 I<br>21 T<br>22 T<br>23 T<br>24 T<br>25 C<br>26 T<br>27 S  | Phenanthrene-d10 Hexachlorobenzene Pentachlorophenol Phenanthrene Anthracene Fluoranthene Pyrene Terphenyl-d14  | 10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000                                       | 10.000<br>8.952<br>10.144<br>10.468<br>11.415<br>11.728<br>11.850<br>11.336  | 0 115 0.00<br>10 111 0.02<br>-1 115 0.03<br>-5 121 0.00<br>-14 128 0.00<br>-17 128 0.02<br>-19 135 0.03<br>-13 122 0.00   |
| 35 T<br>36 T  | Perylene-d12 Benzo(a)anthracene Chrysene bis(2-Ethylhexyl)phthalate Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Indeno(1,2,3-cd)pyrene Dibenzo(a,h)anthracene Benzo(g,h,i)perylene   | 10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000                             | 10.000<br>9.801<br>9.095<br>14.040<br>10.957<br>10.565<br>11.491<br>11.722<br>11.483<br>11.268   | $\begin{array}{cccccccccccccccccccccccccccccccccccc$  |

#### Evaluate Continuing Calibration Report

Data File : D:\CHEMDATA\06B13\RBK147.D

Vial: 3 Acq On : 13 FEB 2006 21:06 Operator: KV

Sample : CSV52A1313 Misc

Inst : TO52 Multiplr: 1.00

MS Integration Params: RTEINT.P

Last Update : Fri Jan 13 14:23:17 2006 Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min

Max. RRF Dev: 20% Max. Rel. Area: 200%

|   | Compound   | AvgRF   | CCRF  | %Dev Area% Dev(min)  |
|---|--|---|---|--|
| 1 I<br>2 T<br>3 S<br>4 T<br>5 T<br>6 T<br>8 T<br>10 T<br>11 T<br>12 T<br>13 T<br>14 T<br>15 T<br>16 T | 1,4-Dichlorobenzene-d4 N-Nitrosodimethylamine Phenol-d5 Phenol Bis(2-chloroethyl)ether 2-Chlorophenol N-Nitroso-di-n-propylamine 2,4-Dimethylphenol 2,4-Dichlorophenol Naphthalene 4-Chloro-3-methylphenol 2-Methylnaphthalene 1-Methylnaphthalene 2,4,6-Trichlorophenol 2,4,5-Trichlorophenol Acenaphthylene Acenaphthene | 1.000<br>1.045<br>1.489<br>1.524<br>1.784<br>1.358<br>0.610<br>1.034<br>0.872<br>4.445<br>0.970<br>2.413<br>2.071<br>0.467<br>0.527<br>3.440<br>2.116 | 1.000<br>0.000 #<br>1.811<br>2.044<br>1.765<br>1.679<br>0.491<br>1.328<br>1.277<br>4.568<br>1.365<br>2.722<br>2.164<br>0.735<br>0.799<br>3.859<br>2.226 | 0 102 0.00 100# 0# -1.28# -22# 118 0.02 -34# 117 0.03 1 106 0.00 -24# 117 0.00 20 76 0.00 -28# 129 0.00 -46# 126 0.00 -3 112 0.00 -41# 119 0.02 -13 112 0.00 -4 110 0.00 -57# 131 0.03 -52# 129 -0.01 -12 111 0.00 -5 116 0.00 |
| 18 T<br>19 T  | Fluorene<br>Azobenzene   | 2.019 2.319   | 2.455<br>2.536  | -5 116 0.00<br>-22# 119 0.00<br>-9 103 0.00  |
| 20 I<br>21 T<br>22 T<br>23 T<br>24 T<br>25 C<br>26 T<br>27 S  | Phenanthrene-d10 Hexachlorobenzene Pentachlorophenol Phenanthrene Anthracene Fluoranthene Pyrene Terphenyl-d14   | 1.000<br>0.375<br>0.341<br>1.350<br>1.240<br>1.085<br>1.124<br>0.492  | 1.000<br>0.336<br>0.497<br>1.413<br>1.415<br>1.273<br>1.332<br>0.558  | 0 115 0.00<br>10 111 0.02<br>-46# 115 0.03<br>-5 121 0.00<br>-14 128 0.00<br>-17 128 0.02<br>-19 135 0.03<br>-13 122 0.00  |
| 28 I<br>29 T<br>30 T<br>31 T<br>32 T<br>33 T<br>34 C<br>35 T<br>36 T<br>37 T                          | Perylene-d12 Benzo(a)anthracene Chrysene bis(2-Ethylhexyl)phthalate Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Indeno(1,2,3-cd)pyrene Dibenzo(a,h)anthracene Benzo(g,h,i)perylene  | 1.000<br>1.564<br>1.657<br>1.638<br>1.531<br>1.545<br>1.473<br>4.024<br>1.597<br>3.571  | 1.000<br>1.533<br>1.507<br>2.299<br>1.678<br>1.632<br>1.693<br>4.717<br>1.834<br>4.024  | 0 135 0.03<br>2 140 0.02<br>9 123 0.02<br>-40# 166 0.00<br>-10 127 0.03<br>-6 159 0.02<br>-15 147 0.03<br>-17 153 0.04<br>-15 146 0.03<br>-13 149 0.04   |

(#) = Out of Range SPCC's out = 0 CCC's out = 0
RBK147.D SV52A13.M Tue Feb 14 09:51:43 2006 T0523021 Page 1

# ANALYTICAL LOG

# ANALYSIS RUN LOG FOR SEMIVOLATILES

Conc. (mg/ 1/17/0 125 2000 Date 23 c-0 Book #52, 011 INITIAL CALIBRATION REFERENCE End Date/Time: 1/13/06 14 Instrument No: 1-89-40-2255 5528-04-18-3 Electronic Data Archival -29-h0-2755 -89-40-725S This page is checked during data review. 12-40-525 Standards 45257 SYSSAID O6A13 Disposed by: NA Analyzed By: MV HPCHEM\_SVOA/T052 Date Disposed: N™ Comments: DATA FILE Name INT. STD. ICAL ID ICV V :0 Solvent DFTPP CHCL DCC 40:01 SOP [] EMAX-8270 Rev. No. 2 [] EMAX-8270SIM Rev. No. 9 [] EMAX-CLPSVOA [] EMAX-M8270SIM Rev. No. 1 [] Date 90/21/1 13/06 Notes O.15 PPn) ICV Start Date/Time: 000 20 3 #0 5 N 3 Matrix Ś DF  $\overline{c}$ S 5 DFT 52A 1301 IBS24130 SYSZAFIS ISV52A13 Run ID Method File: SV52A (3 Tune File: Siv) Data File Name 030 クスク 027 028 025 029 RAKOLO 022 023 026 03 - 20 Preparative Batch 7 ANALYTICAL BATCH SY52AID

Book #52- 011

Instrument No:

00

# ANALYSIS RUN LOG FOR SEMIVOLATILES

INITIAL CALIBRATION REFERENCE End Date/Time: 2/13/06 SVSZAB Standards < ) SS 2B S52B 552C Name INT. STD. ICAL ID DFTPP 20:08 SOP [] EMAX-8270 Rev. No. 2 [] EMAX-8270SIM Rev. No. 9 [] EMAX-CLPSVOA [] EMAX-M8270SIM Rev. No. 1 [] DCC Date Start Date/Time: 2/13/66 Notes X Matrix S 47 DF 711 22 mb r T CSV52A(3)> 0 00 O OFISZAISIS IBSZAIDID Run ID 00 SKBO イフィ SPR 0 Data File Name ムカ 37 149 051 シナー 77 53 Method File: 5 √ 524/3 Tune File: 5 KD. 8V R022W Preparative Batch

Conc. (mg/L)

0

R

-04-21

**○** 

1-29-50

2000 Date 2/18 Electronic Data Archival This page is checked during data review. ひた 2/11/06 HPCHEM\_SVOA/T052 Comments: Analyzed By: Date Disposed; Disposed by: DATA FILE Solvent CH<sub>2</sub>C<sub>12</sub> 2/13/26 ANALYTICAL BATCH CSV 52A1313

# EXTRACTION LOG

# EXTRACTION LOG FOR SEMIVOLATILES

503.9 ZZ Amount Added (ml) hermometer 20.0 Reading (C) Book # ESV-029 1:0 Witnessed By: Location: Disposed on: In 2/10/06 めのメ 002B-04-23-3 NO2B-04-24-1 3 Lot# / ID Reading Ą d Cemperature Setting (C) 5 End Date/Time: TUNING Water Bath 10-8/05 ≘ 201012 4504 4525 SP Comments: Thermometer ID = T, Extract Received by: Prepared By: Standard Added By: Checked By: であった。 Concentrator Sonicator # Standards Reagent Disposed by 7 ¥0 Silica Sand Surrogate CH,CI, Na<sub>2</sub>SO<sub>4</sub> H,SO, NaOH ☐ EMAX.3540 Rev. No.: Q ☐ EMAX.3510 Rev. No.: L ☐ EMAX.3550 Rev. No.: L A EMAX.3520 Rev. No.: L ☐ EMAX.-CLP-SVOA Notes Final Start Date/Time: Clean-up [G] [F] [A] [C] Extract Volume (ml) End Date/Time: 풉 1000/ 1000 0001 000/ 1000 0001 0001 Amount (g/mf) 08 XX In Sonicator Number 90/ 3 0 S 120 3 60 ò 2/10 į Ì Ī ì į SOP 🗀 EMAAASSOW ASSETT Date/Time: 💪 Lab Sample ID 27 064173 10000 0810 Sample Prep 1D 91. -**61**\* \*20 ~4 \*\* \*22 \*23 \*24 \$7. \*26 \*27 \*28 ŧ0; 3 \* **1** \*16 <del>---</del> \*12 £ 13 \* \* \$0 **%**()(6 403 **80**\* ¢() VVB 022W PREPARATION BATCH: \*

MAXLABORATORIES, INC. 1835 W. 207 St. Tomanos, CASUST

3026

Clean-up Legend :{G}=GPC [A]=Acid [F]=Florisil [S]=Silica

Page 93

EXTRACTION LOG FOR SPLP

Start Date 2/8/06

Time 17:55 End Date 2/9/06 Time

Notes

% Solid in Liquid Phase

Extract H

Extraction Solution (ml)

SPLP Fluid Required

Sample Amount (gm)

Sample pH

Lab Sample ID

Sample Prep ID

2000

2 N N

1

58 0 100

064173 SPBOO,

> \*02 \*03 \*04

**10**\*

2000

100.02 100,03 100.03

2000 2000

 $^{\circ}$ 

60-

\*05 90<sub>\*</sub> **£0**4 \*0860\*) [\*

Book # ESP-002

Reading 4.00 401 Calibration of pH meter Value 4 Slope pH meter ID -06-23 5WZA-06-229 Buffer ID 42MS

| SPLP Solution #2 | SPIB-01-329 | 503 | 1/5/07    |
|------------------|-------------|-----|-----------|
|                  | a           | Hd  | Exp. Date |

| 30         |                       | Criteria              | 23+2 |
|------------|-----------------------|-----------------------|------|
| rpm        | Room Temperature (°C) | Thermostaf<br>Setting | -    |
|            | <br>Room Temp         | Low                   | 200  |
| Agitator # |                       | High                  | 23.2 |
|            | <br>                  | ·····                 |      |

|  |  |  | X            | 111         |
|--|--|--|--------------|-------------|
|  |  |  | Prepared By: | Checked By. |
|  |  |  | ۵            | )           |

|   | 义            | M           | STO               |
|---|--------------|-------------|-------------------|
| *************************************** | Prepared By: | Checked By: | Extract Location; |

EMAX LABORATORIES, INC., 1835 205th Street, Torrance, CA 9050 027

\*13 \* 14 \* J

\* 12

\*

PREPARATION BATCH \* SPB0015

91×

<u>~</u> \$<u>1</u>\* 6T\* \*20 7. \*22 \*23 \*24 \*25 \*26

EMAX-1312 Method

Matrix

#### LABORATORY REPORT FOR

SES - TECH

CAMP PENDLETON, UST SITE 1441

#### METHOD 1312/3520C/8015B SPLP PETROLEUM HYDROCARBONS BY EXTRACTION

SDG#: 06A173A

#### **CASE NARRATIVE**

CLIENT:

SES-TECH

PROJECT:

**CAMP PENDLETON, UST SITE 1441** 

SDG:

06A173A

### METHOD 1312/3520C/8015B SPLP PETROLEUM HYDROCARBONS BY EXTRACTION

Three (3) soil samples were received on 01/31/06 for SPLP Petroleum Hydrocarbons by Extraction analysis by Method 1312/3520C/8015B in accordance with SW846 3<sup>RD</sup> Edition.

#### 1. Holding Time

Analytical holding time was met. SPLP extraction was performed on 02/08/06 and completed on 02/09/06. 3520C extraction was performed on 02/09/06 and completed on 02/10/06.

#### 2. Calibration

Initial calibration was seven points for Diesel. %RSDs were within 20%. Continuing calibrations were carried out at 12-hour intervals and all recoveries were within 85-115%.

#### 3. Method Blank

Method blanks were free of contamination at half of the reporting limit.

#### 4. Surrogate Recovery

All recoveries were within QC limits.

#### 5. Lab Control Sample/Lab Control Sample Duplicate

All recoveries were within QC limits.

#### 6. Matrix Spike/Matrix Spike Duplicate

No sample was designated for MS/MSD.

#### 7. Sample Analysis

Samples were analyzed according to the prescribed QC procedures. All criteria were met. Sample results were quantitated from C10 to C24 using Diesel (C10-C24) calibration factor.

The samples displayed diesel-like fuel pattern.

| Client   | acat . Odo .                    | سال ما الله الله الله الله الله الله الله |           |                   |   |               |  | ***********                             |  |   |
|--|---------------------------------|---|-----------|-------------------|---|---------------|--|---|--|---|
| 1  | י לרט דוניין                    |   |           |                   |   |               |  |   | SDG NO.  | : 06A173A                                   |
| Project  | : CAMP PENDLETON, UST SITE 1441 | UST SITE 144                              | · ·       |                   |   |               |  |   |  |   |
| The same after the last two two and after the same and |                                 |   | A         |                   |   |               |  |   | Instrume   | instrument ID : GCTU50                      |
|  |                                 |   |           |                   |   |               | ###################################### |   | ****   |   |
| ,  |                                 |   |           |                   | WA                                      | WATER         |  |   |  |   |
| Client   |                                 | Laboratory                                | Dilution  | *                 | Analysis                                | Extraction    | Sample                                 | Calibration Pren                        | G C  |   |
| Sample 1D  |                                 | Sample ID                                 | Factor    | Moist             | Datelime                                | Datelime      | Data FN                                | Data FN                                 | - m<br>- m<br>- 7 - m  | 000   |
| h L P 1 2 2 2 4 4 4                                    |                                 | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1     | 1 1 1 1 1 | \$<br>4<br>4<br>6 | 1 |               |  |   |  | 2000  |
| MRIK   |                                 | C. 17.0000                                | *         |                   | 4                                       |               | 1                                      | 1 | 1 1 1 1 1 1 1 1  |   |
| # 15 CC -  |                                 | 3M970460                                  | <b>,</b>  | ΑN                | 02/10/0619:01                           | 02/09/0615:00 | TB09041A                               | TB09039A                                | DSB023W  | Method Rlank                                |
| <br>   |                                 | DSB023ML                                  | •         | NA                | 02/10/0614:05                           | 02/09/0615:00 | TROOUTA                                | TR00027A                                | DECUSSO  | 200 - 2 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 |
| LCD 1%   |                                 | DSB023WC                                  | •         | NA                | 02/10/0614:47                           | 02/09/0615:00 | TROOPS                                 | TROOD27A                                | Deposed to the second to the s | Lab control sample (LUS)                    |
| MBLK1S   |                                 | SPB001SB                                  | -         | AN                | 02/10/0616-11                           | 00,710,00,00  | T000001                                | 100000H                                 | MC COCCO   | LLS Uupticate                               |
| 0003-069   |                                 | A 1 772 - 0.1                             |           | :                 | 1. 0.0000000000000000000000000000000000 | 00:0100/60/20 | I BUYUS (A                             | BUYUZIA                                 | DSB025W  | Method Blank                                |
| 720-2000   |                                 | M17.0-10-1                                | _         | Z Z               | 02/10/0619:43                           | 02/09/0615:00 | TB09042A                               | TB09039A                                | DSB023W  | Field Sample                                |
| # 10 F000  |                                 | A 1 / 3 - U6                              | <b></b>   | ΑĀ                | 02/10/0620:25                           | 02/09/0615:00 | TB09043A                               | TB09039A                                | DSB023W  | Field Sample                                |
| 770-5000   |                                 | A173-09                                   | <b>*</b>  | AN                | 02/10/0621:07                           | 02/09/0615:00 | TB09044A                               | TB09039A                                | DSB023W  | Field Sample                                |

FN - Filename % Moist - Percent Moisture

# SAMPLE RESULTS

| ***************************************                  |
|--|
| Date Collected: 01/31/06<br>1441 Date Received: 01/31/06 |
| - · · · · · · · · · · · · · · · · · · ·                  |
| Date Extracted: 02/09/06 15:00                           |
| Date Analyzed: 02/10/06 19:43 -                          |
| Dilution Factor: 1                                       |
| Matrix : WATER   |
| % Moisture : NA  |
| Instrument ID : GCT050                                   |
|  |
| · · · · · · · · · · · · · · · · · · ·                    |
| RESULTS RL MDL   |
| (mg/L) (mg/L) (mg/L)                                     |
| (mg/L)   |
| 1.21 .025  |
| 1.2 , .1 .025  |
| 9/ DEGO//FDV 00 1 11117                                  |
| % RECOVERY QC LIMIT                                      |
|  |
| 65 65-135  |
|  |
| /  |
| /  |
|  |
|  |

| Client : SES-TECH                                      | Date Collected: 01/31/06       |
|--|--------------------------------|
| Project : CAMP PENDLETON, UST SITE                     | 1441 Date Received: 01/31/06   |
| Batch No. : 06A173A                                    | Date Extracted: 02/09/06 15:00 |
| Sample ID: 0003-074                                    | Date Analyzed: 02/10/06 20:25  |
| Lab Samp ID: A173-06                                   | Dilution Factor: 1             |
| Lab File ID: TB09043A                                  | Matrix : WATER                 |
| Ext Btch ID: DSB023W                                   | % Moisture : NA                |
| Calib. Ref.: TB09039A                                  | Instrument ID : GCT050         |
| PARAMETERS   | RESULTS RL MDL (mg/L) (mg/L)   |
| DIESEL   | 1.2 .1 .025                    |
| SURROGATE PARAMETERS                                   | % RECOVERY QC LIMIT            |
| HEXACOSANE   | 112 65-135                     |
| RL: Reporting Limit Parameter H-C Range Diesel C10-C24 | /                              |

Client : SES-TECH Date Collected: 01/31/06
Project : CAMP PENDLETON, UST SITE 1441 Date Received: 01/31/06
Batch No. : 06A173A Date Extracted: 02/09/06 Date Collected: 01/31/06 Date Extracted: 02/09/06 15:00 Sample ID: 0003-077 Date Analyzed: 02/10/06 21:07 \_ Lab Samp ID: A173-09 Dilution Factor: 1 Lab File ID: TB09044A Matrix : WATER % Moisture : NA Ext Btch ID: DSB023W Instrument ID : GCT050 Calib. Ref.: TB09039A RESULTS RL MDL (mg/L) (mg/L) (mg/L) 1 .1 .025 PARAMETERS DIESEL

SURROGATE PARAMETERS % RECOVERY QC LIMIT
HEXACOSANE 113 65-135

RL: Reporting Limit
Parameter H-C Range
Diesel C10-C24

# QC SUMMARIES

| ~=====================================                 |  |
|--|--|
| Client : SES-TECH                                      | Date Collected: NA                     |
| Project : CAMP PENDLETON, UST SITE                     |  |
| Batch No. : 06A173A                                    | Date Extracted: 02/09/06 15:00         |
| Sample ID: MBLK1W                                      | Date Analyzed: 02/10/06 19:01          |
| Lab Samp ID: DSB023WQ                                  | Dilution Factor: 1                     |
| Lab File ID: TB09041A                                  | Matrix : WATER                         |
| Ext Btch ID: DSB023W                                   | % Moisture : NA                        |
| Calib. Ref.: TB09039A                                  | Instrument ID : GCTO50                 |
| PARAMETERS   | RESULTS RL MDL<br>(mg/L) (mg/L) (mg/L) |
| DIESEL   | ND .1 .025                             |
| SURROGATE PARAMETERS                                   | % RECOVERY QC LIMIT                    |
| HEXACOSANE   | 109 65-135                             |
| RL: Reporting Limit Parameter H-C Range Diesel C10-C24 |  |

#### EMAX QUALITY CONTROL DATA LCS/LCD ANALYSIS

CLIENT:

SES-TECH

PROJECT:

CAMP PENDLETON, UST SITE 1441

BATCH NO.:

06A173A

METHOD: METHOD 1312/3520C/8015B

MATRIX: DILUTION FACTOR: 1

WATER

1

% MOISTURE:

NA

SAMPLE ID: LAB SAMP ID:

MBLK1W

1

DSB023WL

LAB FILE ID:

TB09041A

DSB023W0

TB09034A DATE EXTRACTED: 02/09/0615:00 02/09/0615:00 02/09/0615:00 DATE COLLECTED: NA

T809035A

DS8023W

DSB023W

DATE ANALYZED: 02/10/0619:01 02/10/0614:05 02/10/0614:47 DATE RECEIVED: 02/09/06

CALIB. REF:

PREP. BATCH:

TB09039A

TB09027A

DSB023W TB09027A

DSB023WC

ACCESSION:

PARAMETER ------

(mg/L) (mg/L)

(mg/L)

~~~~~

BLNK RSLT SPIKE AMT BS RSLT

BS

BS

SPIKE AMT BSD RSLT (mg/L) % REC (mg/L) ------

(mg/L)

BSD RPD % REC (%)

QC LIMIT MAX RPD (%) (%)

Diesel

91

SURROGATE PARAMETER

------

Hexacosane

SPIKE AMT BS RSLT

5

4.56

.25 .278 111 65-135

6

65-135 30

(mg/L)

5 4.29

86

SPIKE AMT BSD RSLT

BSD QC LIMIT

(mg/L) % REC (%)

(mg/L) % REC

-----

.25 .295 118

| Client : SES-TECH                  | Date Collected: NA             |
|------------------------------------|--------------------------------|
| Project : CAMP PENDLETON, UST SITE | 1441 Date Received: 02/09/06   |
| Batch No. : 06A173A                | Date Extracted: 02/09/06 15:00 |
| Sample ID: MBLK1S                  | Date Analyzed: 02/10/06 16:11  |
| Lab Samp ID: SPB001SB              | Dilution Factor: 1             |
| Lab File ID: TB09037A              | Matrix : WATER                 |
| Ext Btch ID: DSB023W               | % Moisture : NA                |
| Calib. Ref.: TB09027A              | Instrument ID : GCT050         |
|                                    |                                |
|                                    | RESULTS RL MDL                 |
| PARAMETERS                         | (mg/L) (mg/L) (mg/L)           |
| ****                               |                                |
| DIESEL                             | ND .1 .025                     |
| SURROGATE PARAMETERS               | 04                             |
| SORROGATE PARAMETERS               | % RECOVERY QC LIMIT            |
| HEXACOSANE                         | 113 65-135                     |
|                                    | 113 60, 100                    |
| RL : Reporting Limit               |                                |
| Parameter H-C Range                | ·                              |
| Diesel C10-C24                     |                                |
|                                    |                                |

# **INITIAL CALIBRATION**

#### INITIAL CALIBRATION METHOD M8015

Lab Name : EMAX Inc
Instrument ID : GCT050
GC Column : DB-5
Column size ID : 30MM0.25MM
LFID & Datetime: TA31009A 01/31/06 19:57
LFID & Datetime: TA31010A 01/31/06 20:39
LFID & Datetime: TA31004A 01/31/06 16:26
LFID & Datetime: TA31005A 01/31/06 17:08
LFID & Datetime: TA31006A 01/31/06 17:51
LFID & Datetime: TA31007A 01/31/06 18:33
LFID & Datetime: TA31008A 01/31/06 19:15
CONC UNIT: ppm

|                                               | CONC                 |                                  | CALIB | RATION FAC                             | CTORS (A     | REA or HE | IGHT)/UNI          | Γ                                 |                                  | 1    |
|-----------------------------------------------|----------------------|----------------------------------|-------|----------------------------------------|--------------|-----------|--------------------|-----------------------------------|----------------------------------|------|
| COMPOUND                                      | X                    | 1.00X                            | 2.00X | 10.00x                                 | 20.00X       | 100.00x   | 300.00X            | 600.00x                           | MEAN                             | %RSD |
| DIESEL(TOTAL) DIESEL(C10-C24) DIESEL(C10-C28) | 5.00<br>5.00<br>5.00 | 29695<br>29695<br>29695<br>29695 | 33603 | -21896                                 | <b>26080</b> | × 23330   |                    | <br>- 25894<br>- 25775<br>- 25800 | ~26500.7<br>~26460.6<br>~26478.8 | 15.1 |
| SURROGATE                                     | Х                    | 0.50x                            | 1.00X | 2.00x                                  |              | 5.00X     | 7.00X              | 11.00X                            | MEAN                             | %RSD |
| BROMOBENZENE<br>HEXACOSANE                    | 20.00<br>5.00        | * 1<br>- 1                       | <br>  | -===================================== | 15142        |           | - 14495<br>- 28544 | ~14436<br>~ 28106                 | ~======<br>~14214.3<br>~ 28984.5 |      |

DS50A31\_MET

#### INITIAL CALIBRATION METHOD M8015

Lab Name : EMAX Inc Instrument ID : GCTO50 GC Columm : DB-5 Column size ID : 30MX0.25MM

LFID & Datetime: TA31009A 01/31/06 19:57
LFID & Datetime: TA31010A 01/31/06 20:39
LFID & Datetime: TA31004A 01/31/06 16:26
LFID & Datetime: TA31005A 01/31/06 17:08
LFID & Datetime: TA31006A 01/31/06 17:51
LFID & Datetime: TA31007A 01/31/06 18:33
LFID & Datetime: TA31008A 01/31/06 19:15

|                                               | ļ                       |       | RT OF | STANDAR | IIM) 20                                 | V)             |        | MEAN            | RT W  | INDOW           | RTWINDOW |
|-----------------------------------------------|-------------------------|-------|-------|---------|-----------------------------------------|----------------|--------|-----------------|-------|-----------------|----------|
| COMPOUND                                      | 1.0X                    | 2.0x  | 1     | 1       | 1                                       | ,              | 600.0X | RT              | FROM  | TO              | WIDTH    |
| DIESEL(TOTAL) DIESEL(C10-C24) DIESEL(C10-C28) | 0.000<br>0.000<br>0.000 | 0.000 | 0.000 | 0.000   | 0.000<br>0.000                          | 0.000<br>0.000 | 0.000  | 0.000           | 0.000 |                 | 1.500    |
| SURROGATE                                     | 0.5x                    | 1.0x  |       |         | - 1 - 1                                 |                |        | , , ,           | FROM  | то              | WIDTH    |
| BROMOBENZENE                                  | -1                      | 5.267 | 5.267 | 5.267   |                                         | 5.275          |        | 5.272<br>15.224 | 5.185 | 5.359<br>15.557 | 0.087    |
|                                               |                         |       |       |         | *************************************** |                |        |                 |       |                 |          |

DS50A31.MET

# SECOND SOURCE

#### INITIAL CALIBRATION VERIFICATION METHOD M8015

Lab Name : EMAX
Instrument ID : GCT050
GC Columm : DB-5
Column size ID : 30MX0.25MM
Mid Conc Init LFID & Datetime: TA31006A 01/31/2006 17:51
Conc Cont LFID & Datetime: TA31011A 01/31/2006 21:21
CONC UNIT : ppm

|                 | RT      | RT W   | I NDOW | TRUE    | AVERAGE | RESU     | JLT     | 1  |     | %D     |
|-----------------|---------|--------|--------|---------|---------|----------|---------|----|-----|--------|
| COMPOUND        | MINUTES | FROM   | ТО     | CONC    | CF      | AREA     | CONC    | %D | ۵۲  | LIMITS |
|                 | ======  | ====== | ====== | ======  |         |          | ======= |    | ==  | ====== |
| DIESEL(TOTAL)   | 0.000   | 0.000  | 0.000  | 500.0   | 26500.7 | 13255810 | 500.21  | 0  |     | 15     |
| DIESEL(C10-C24) | 0.000   | 0.000  | 0.000  | 500.0   | 26460.6 | 13131692 | 496.27  | -1 |     | 15     |
| DIESEL(C10-C28) | 0.000   | 0.000  | 0.000  | 500.0   | 26478.8 | 13174570 | 497.55  | -0 |     | 15     |
| SURROGATE       | MINUTES | FROM   | то     | TRUECON | CF      | AREA     | CONC    | %D | QL. | LIMITS |
| DE ONOR CHARLES | ======  | - 400  | ====== |         | 4:04: 3 |          |         |    | ==  | ====== |
| BROMOBENZENE    | 5.275   | 5.188  |        |         |         |          | 94.11   | -6 |     | 15     |
| HEXACOSANE      | 15.225  | 14.892 | 15.558 | 25.0    | 28984.5 | 687118   | 23.71   | ~5 |     | 15     |
|                 | l       |        |        |         |         |          | l       |    |     |        |

DS50A31.MET

#### INITIAL CALIBRATION VERIFICATION METHOD M8015

Lab Name : EMAX Instrument ID : GCT050 : DB-5 GC Column

Column size ID : 30MX0.25MM

Mid Conc Init LFID & Datetime: TA31007A 01/31/2006 18:33

Conc Cont LFID & Datetime: TA31012A 01/31/2006 22:03

CONC UNIT : ppm

|                 | RT      | RT W   | INDOW  | TRUE    | AVERAGE | RESU     | JLT     |         |    | %D     |
|-----------------|---------|--------|--------|---------|---------|----------|---------|---------|----|--------|
| COMPOUND        | MINUTES | FROM   | TO     | CONC    | CF      | AREA     | CONC    | %D      | QL | LIMITS |
| DIESEL(TOTAL)   | 0.000   | 0.000  | 0.000  | 1500.0  | 26500.7 | 40011184 | 1509.81 | ======= | == | 15     |
| DIESEL(C10-C24) | 0.000   | 0.000  | 0.000  | 1500.0  |         | 39560264 |         | -0      |    | 15     |
| DIESEL(C10-C28) | 0.000   | 0.000  | 0.000  | 1500.0  | 26478.8 | 39688336 | 1498.87 | -0      |    | 15     |
| SURROGATE       | MINUTES | FROM   | то     | TRUECON | CF      | AREA     | CONC    | %D      | QL | LIMITS |
|                 | ======  |        | ====== | ======= |         |          |         | =====   | == | =====  |
| BROMOBENZENE    | 5.275   | 5.188  |        | 140.0   |         |          |         |         |    | 15     |
| HEXACOSANE      | 15.233  | 14.900 | 15.566 | 35.0    | 28984.5 | 989691   | 34.15   | -2      |    | 15     |

DS50A31.MET

# DAILY CALIBRATION

#### CONTINUE CALIBRATION METHOD M8015

Lab Name : EMAX Instrument ID : GCT050 GC Column : DB-5
Column size ID : 30MX0.25MM
Mid Conc Init LFID & Datetime: TA31006A 01/31/2006 17:51

Conc Cont LFID & Datetime: TB09027A 02/10/2006 08:49

CONC UNIT

|                               | RT              | ŗ     | INDOW           | TRUE    | AVERAGE | RESI                 | JLT              |            |    | %D       |
|-------------------------------|-----------------|-------|-----------------|---------|---------|----------------------|------------------|------------|----|----------|
| COMPOUND                      | MINUTES         | FROM  | TO              | CONC    | CF      | AREA                 | CONC             | %D         | QL | LIMITS   |
| DIESEL(TOTAL) DIESEL(C10-C24) | 0.000           |       |                 |         |         | 15230425             |                  | ,          | == | 15       |
| DIESEL(C10-C28)               | 0.000           |       |                 |         |         | 15082574<br>15094581 | 570.00<br>570.06 | <b>,</b> , |    | 15<br>15 |
| SURROGATE                     | MINUTES         | FROM  | то              | TRUECON | CF      | AREA                 | CONC             | %D         | QL | LIMITS   |
| BROMOBENZENE HEXACOSANE       | 5.283<br>15.208 | 5.196 | 5.370<br>15.541 |         |         | 1613736<br>703894    | 113.53<br>24.28  | 14<br>-3   | == | 15       |
|                               |                 |       |                 |         |         | , 00.0,              | 24120            | ,          |    | 1.7      |

#### CONTINUE CALIBRATION METHOD M8015

Lab Name Instrument ID

: EMAX : GCTO50

GC Column : DB-5
Column size ID : 30MX0.25MM
Mid Conc Init LFID & Datetime: TA31006A 01/31/2006 17:51
Conc Cont LFID & Datetime: TB09039A 02/10/2006 17:35

CONC UNIT

|                                    | RT      | RT W   | INDOW  | TRUE    | AVERAGE   | RESU                 | JLT    | Ī      | <u> </u> | %D       |
|------------------------------------|---------|--------|--------|---------|-----------|----------------------|--------|--------|----------|----------|
| COMPOUND                           | MINUTES | FROM   | TO     | CONC    | CF        | AREA                 | CONC   | %D     | QL       | LIMITS   |
| DIESEL(TOTAL)                      | 0.000   | 0.000  | 0.000  | 500.0   | 26500.7   | 14164827             | 534.51 | ====== | ==       | 15       |
| DIESEL(C10-C24)<br>DIESEL(C10-C28) | 0.000   |        | 1      |         |           | 14044597<br>14059408 |        | , -    |          | 15<br>15 |
| SURROGATE                          | MINUTES | FROM   | то     | TRUECON | CF        | AREA                 | CONC   | <br>%D | QL       | LIMITS   |
| BROMOBENZENE HEXACOSANE            | 5.258   | 5.171  | 5.345  | 100.0   | - 1 / 100 | 1362389              | 95.85  | -4     | ==       | 15       |
| ne vacosane                        | 15.217  | 14.884 | 15.550 | 25.0    | 28984.5   | 735649               | 25.38  | 2      |          | 15       |

#### CONTINUE CALIBRATION METHOD M8015

Lab Name : EMAX Instrument ID : GCTO50

GC Column : DB-5
Column size ID : 30MX0.25MM
Mid Conc Init LFID & Datetime: TA31006A 01/31/2006 17:51
Conc Cont LFID & Datetime: TB09053A 02/11/2006 03:22

CONC UNIT : ppm

|                 | RT      | !      | INDOW  | TRUE    | AVERAGE  | RES      | JL T    | <u> </u> | Ī  | %D           |
|-----------------|---------|--------|--------|---------|----------|----------|---------|----------|----|--------------|
| COMPOUND        | MINUTES | FROM   | TO     | CONC    | CF       | AREA     | CONC    | %D       | QL | LIMITS       |
|                 | ======  | ====== | ====== | ======  | ======== |          | ======= | =====    | == | ======       |
| DIESEL(TOTAL)   | 0.000   | 0.000  | 0.000  | 500.0   | 26500.7  | 13527609 | 510.46  | 2        | j  | 15           |
| DIESEL(C10-C24) | 0.000   | 0.000  | 0.000  | 500.0   | 26460.6  | 13511240 | 510.62  | 2        |    | 15           |
| DIESEL(C10-C28) | 0.000   | 0.000  | 0.000  | 500.0   | 26478.8  | 13527609 | 510.88  | 2        |    | 15           |
| SURROGATE       | MINUTES | FROM   | то     | TRUECON | CF       | AREA     | CONC    | %D       | QL | LIMITS       |
| BROMOBENZENE    | 5.267   | 5.180  | 5.354  | 100.0   | 14214.3  | 1288194  | 90.63   |          | == | ======<br>15 |
| HEXACOSANE      | 15.217  |        | 15.550 | 25.0    | 28984.5  |          | 23.56   | -6       |    | 15           |
|                 |         |        |        |         |          |          |         |          |    |              |

# ANALYTICAL LOGS

|                                    | Book # A50-021         | æsj.<br>Š           | - 20              | RENCE                                   | Date    | 7. 7.      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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|                                    | B0                     | Time: 23,27         | Instrument No:    | INITIAL CALIBRATION REFERENCE           | 1       | CSS431     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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|                                    |                        | Time:               |                   |                                         |         | Diesel     | Motor oil                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | JP 5  |          |         |           | Name   | CH,CI,                                                                                                         | DCC  |                | 1 SURK       | DSC 10V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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|                          |                 |                   | SC 30          | W3C.      |        |         | 45257                                   | SC2 R                                     | 50134  |             | -                                       |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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| Rev. No.1                | 1250/           |                   | Sam            | E         | 058023 |         | >                                       | SPB001                                    | E£1490 |             | ->                                      | 8708                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | $\rightarrow$ | 450 B 20 | -                                 | 15<br>8                                 | <u> </u>   | 3 662     | t    | <u> </u>  | 700                                     |                                   |                                         |   | *************************************** |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                          |
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| SOP                      | Matri           |                   |                |           |        |         |                                         |                                           |        | j           | PRE                                     | PA                                      | RAT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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EXTRACTION LOG FOR SPLP

Start Date 2/8/06

Matrix

Time 17:55 End Date 2/9/06 Time

Book # ESP-002 Calibration of pH meter Value 42-90 5W ZA-06-229 12:80 Buffer ID SWZA

Notes

% Solid in Liquid Phase

Extract pH

Extraction Solution (ml)

SPLP Fluid Required

Sample Amount (gm)

Sample pH

Lab Sample ID

Sample Prep ID

MA

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064173 SPBOO

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| SPLP Solution #2 | SPIB-01-329 | 503 | 70/5/1    |
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|                  | Œ           | рН  | Exp. Date |

| 30        |                       | Criteria              | 23 ± 2 |
|-----------|-----------------------|-----------------------|--------|
| udı       | Room Temperature (°C) | Thermostat<br>Setting |        |
|           | Room Temp             | Low                   | 22.5   |
| Agitator# |                       | High                  | 23.2   |
|           | <br>                  |                       | ·      |

| Comments: |  |
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|  |  |  | X            | 111         |
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|  |  |  | Prepared By: | Chackad Bur |
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|                                         | 关            | 111         | アゴン               |
|-----------------------------------------|--------------|-------------|-------------------|
| *************************************** | Prepared By: | Checked By: | Extract Location: |
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| EMAX-1312 |
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PREPARATION BATCH \* SPB0015

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## BACKFILL MATERIAL ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY DOCUMENTATION

TETRATECH
1238 Columbia Street, Saite 900
San Deego, CA 92101 (619) 234-8696

CHAIN-OF-CUSTODY RECORD OG ACT &

NUMBER 12445

| )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | LABORATORY NAME   | į          | 6 M 4X                   | LABORATORY ID<br>(FOR LABORATORY) |                                     | COMMENTS                   |           | *************************************** |  |  |  |                                        | 10th @usen                           |                         |         | TORY)                                                                                        | 1                   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|------------|--------------------------|-----------------------------------|-------------------------------------|----------------------------|-----------|-----------------------------------------|--|--|--|----------------------------------------|--------------------------------------|-------------------------|---------|----------------------------------------------------------------------------------------------|---------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ANALYSES REQUIRED |            | SHO                      | Ь                                 | 183                                 | H4                         | ×         |                                         |  |  |  | LABORATORY INSTRUCTIONS/COMMENTS       | PLEASE RUSH PESULTS DESULTS BY FOROM | ION                     |         | SAMPLE CONDITION UPON RECEIPT (FOR LABORATORY) TEMPERATURE: 2.9 C. SAMPLE CONDITION: C. INTA | O INTACT   D BROKEN |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                   | 9          | 5108                     |                                   |                                     | 7-H9T                      | ×         |                                         |  |  |  | RY INSTRU                              | なると                                  | DESCRIPT                |         | NDITION IRE. 2.                                                                              | Ţ.                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <u> </u>          |            |                          |                                   |                                     | H V H                      | S FUSH    |                                         |  |  |  | LABORATO                               | PLEASE                               | COMPOSITE DESCRIPTION   |         | SAMPLE CO<br>TEMPERATI                                                                       | COOLER SEAL:        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | NO.               | 80         | PROJECT NO<br>2473. 6040 | 16P                               | (949) 756 - 7500                    | NO. OF LEVEL CONTAINER 3 4 | 1<br>×    |                                         |  |  |  | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | X                                    | nature) /               |         |                                                                                              | enex                |
| -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | PURCHASE ORDER NO | 0260       | 2,473                    | AIRBILL NUMBER                    | PROJECT CONTAC<br>(949) 7           | TIME                       | (105      |                                         |  |  |  | REGULED BOS                            | SCOMPANYEY                           | RECEIVED BY (Signature) | COMPANY | RECEIVED BY (Signature)                                                                      | COMPANY EN          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                   |            |                          | _\                                | 46.R                                | DATE                       | 90/E1/1   |                                         |  |  |  | DATE IN                                | います。                                 | PT706                   | 15.3D   | 1-10-04                                                                                      | TIME 3              |
| STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STA |                   | SITE 17[3] | CAMP PENDLETON           | SAMPLER NAME SORDAN SAGER         | PROJECT CONTACT<br>NICK WEIN BERGER | SAMPLE ID                  | 760- 4000 |                                         |  |  |  | KELLO WISHED BY Signature)             | COMMINY                              | RESOURTER W (Significa) | N L     | CELLINGUISTIEL BT (Signature)                                                                | COMPANY             |

White - Laboratory; Pink - Laboratory; Canary - Project File; Manila - Data Management

#### SAMPLE RECEIPT FORM I

| EMAX Courier      | e of Delivery               | Deliver                  | red By/Airbill                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ECN.                                   | 064078                                 |
|-------------------|-----------------------------|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|----------------------------------------|
| ☐ Client Delivery |                             | Su Co                    | re.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Recepient                              | ······································ |
|                   |                             |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Date                                   |                                        |
| Third Party       |                             |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Time                                   | 1530                                   |
|                   |                             |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                        | 1330                                   |
| ghabrana.         |                             | COC in                   | rspection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ······································ |                                        |
| Lift Olient Name  |                             | Sampler Name             | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Samoling I                             | Date/Time/Location                     |
| Address           |                             | Courier Signature/Date/1 | îme                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                        |                                        |
| Gient PM/FC       |                             | <b>☑</b> TAT             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Analysis Re                            | equired                                |
| Te #/Fax #        | -marketines-                | Sample ID                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Matrix                                 |                                        |
| Safety Issues     | None                        | High Concentrations expe | -t (                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Preservativ                            |                                        |
| Comments:         | Rad Screening Reg           | Direct                   | ctea                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Superfund                              | Site Samples                           |
|                   |                             |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                        |                                        |
|                   |                             |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                        |                                        |
|                   |                             | D(                       | E                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                        |                                        |
| ontainer          | Cooler                      | Packaging                | Inspection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                        |                                        |
| andition          | Custody Seal                | Box                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Γ                                      |                                        |
| ackaging          | Dubble De C                 | Intact                   | ☐ Da                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | amaged                                 |                                        |
| emperatures       | Cooler 1 2 · 9              |                          | <del>∐ s</del> e                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | fficient =                             | Fplach-2.                              |
| aniharamas        | Cooler 1                    | Cooler 2                 | Псм                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | oler 3                                 | = Plastre Bu                           |
|                   |                             |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                        | _i Woler 4                             |
|                   | Cooler 5                    | Cooler 6                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                        |                                        |
|                   |                             | Cooler 6                 | □ Coo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | pier 7                                 | Cooler 8                               |
| omments:          | Cooler 5                    |                          | □ Coo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | pier 7                                 |                                        |
|                   | Cooler 5                    | Cooler 6                 | □ Coo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | pier 7                                 | Cooler 8                               |
| omments:          | Cooler 5                    | Cooler 6                 | Coc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | pier 7                                 | Cooler 8                               |
|                   | Cooler 5                    | Cooler 6 Cooler 10       | Coc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | oler 11                                | Cooler 8Cooler 12                      |
| omments:          | Cooler 5                    | Cooler 6                 | Coc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | oler 11                                | Cooler 8                               |
| omments:          | Cooler 5                    | Cooler 6 Cooler 10       | Coc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | oler 11                                | Cooler 8Cooler 12                      |
| omments:          | Cooler 5                    | Cooler 6 Cooler 10       | Coc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | oler 11                                | Cooler 8Cooler 12                      |
| omments:          | Cooler 5                    | Cooler 6 Cooler 10       | Coc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | oler 11                                | Cooler 8Cooler 12                      |
| omments:          | Cooler 5                    | Cooler 6 Cooler 10       | Coc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | oler 11                                | Cooler 8Cooler 12                      |
| omments:          | Cooler 5                    | Cooler 6 Cooler 10       | Coc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | oler 11                                | Cooler 8Cooler 12                      |
| omments:          | Cooler 5                    | Cooler 6 Cooler 10       | Coc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | oler 11                                | Cooler 8Cooler 12                      |
| omments:          | Cooler 5                    | Cooler 6 Cooler 10       | Coc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | oler 11                                | Cooler 8Cooler 12                      |
| omments:          | Cooler 5                    | Cooler 6 Cooler 10       | Coc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | oler 11                                | Cooler 8Cooler 12                      |
| omments:          | Cooler 5                    | Cooler 6 Cooler 10       | Coc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | oler 11                                | Cooler 8Cooler 12                      |
| omments:          | Cooler 5                    | Cooler 6 Cooler 10       | Coc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | oler 11                                | Cooler 8Cooler 12                      |
| omments:          | Cooler 5                    | Cooler 6 Cooler 10       | Coc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | oler 11                                | Cooler 8Cooler 12                      |
| omments:          | Cooler 5                    | Cooler 6 Cooler 10       | Coc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | oler 11                                | Cooler 8Cooler 12                      |
| omments:          | Cooler 5                    | Cooler 6 Cooler 10       | Coc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | oler 11                                | Cooler 8Cooler 12                      |
| LSCID             | Cooler 5 Cooler 9 Client ID | Cooler 6 Cooler 10       | pancy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | oler 11                                | Cooler 8Cooler 12                      |
| D. Lab Sample     | Cooler 5 Cooler 9 Client ID | Cooler 6 Cooler 10       | Coc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | oler 11                                | Cooler 8Cooler 12                      |
| LSCID             | Cooler 5 Cooler 9 Client ID | Cooler 6 Cooler 10       | pancy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | oler 11                                | Cooler 8Cooler 12                      |
| Dr. Lab Sample    | Cooler 5 Cooler 9 Client ID | Cooler 6 Discret         | pancy  Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | oler 11                                | Cooler 8Cooler 12                      |
| D. Lab Sample     | Cooler 5 Cooler 9 Client ID | Cooler 6 Cooler 10       | pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pancy  Pa | oler 11                                | Cooler 8Cooler 12                      |

#### REPORTING CONVENTIONS

#### DATA QUALIFIERS:

| Lab Qualifier | AFCEE Qualifier                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Description                                                                                                    |
|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| J             | F                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Indicates that the analyte is positively identified and the result is less than RL but greater than MDL.       |
| N             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Indicates presumptive evidence of a compound.                                                                  |
| В             | В                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Indicates that the analyte is found in the associated method blank as well as in the sample at above QC level. |
| E             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Indicates that the result is above the maximum calibration range.                                              |
| *             | A A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CO | Out of QC limit.                                                                                               |

Note: The above qualifiers are used to flag the results unless the project requires a different set of qualification criteria.

#### **ACRONYMS AND ABBREVIATIONS:**

| CRDL | Contract Required Detection Limit |
|------|-----------------------------------|
| RL   | Reporting Limit                   |
| MRL  | Method Reporting Limit            |
| PQL  | Practical Quantitation Limit      |
| MDL. | Method Detection Limit            |
| DO   | Diluted out                       |

#### **DATES**

The date and time information for leaching and preparation reflect the beginning date and time of the procedure unless the method, protocol, or project specifically requires otherwise.

#### LABORATORY REPORT FOR

SES-TECH

CAMP PENDLETON, UST SITE 14131

## METHOD 3550B/8015B TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

SDG#: 06A078

#### **CASE NARRATIVE**

CLIENT:

SES-TECH

PROJECT:

**CAMP PENDLETON, UST SITE 14131** 

SDG:

06A078

### METHOD 3550B/8015B TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

Two (2) soil samples were received on 01/17/06 for Total Petroleum Hydrocarbons by Extraction analysis by Method 3520C/8015B in accordance with SW846 3<sup>RD</sup> Edition.

#### 1. Holding Time

Analytical holding time was met. Extraction was performed and completed on 01/18/06.

#### 2. Calibration

Initial calibration was seven points for Diesel. %RSDs were within 20%. Continuing calibrations were carried out at 12-hour intervals and all recoveries were within 85-115%.

#### 3. Method Blank

Method blank was free of contamination at half of the reporting limit.

#### 4. Surrogate Recovery

All recoveries were within QC limits.

#### 5. Lab Control Sample/Lab Control Sample Duplicate

All recoveries were within QC limits.

#### 6. Matrix Spike/Matrix Spike Duplicate

No sample was designated for MS/MSD.

#### 7. Sample Analysis

Samples were analyzed according to the prescribed QC procedures. All criteria were met. Sample results were quantitated from C10 to C24 using Diesel (C10-C24) calibration factor.

Sample A078-02 displayed motor oil-like fuel pattern.

### SAMPLE RESULTS

#### METHOD 3550B/8015B TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

Client : SES-TECH Date Collected: 01/17/06 Project : CAMP PENDLETON, UST SITE 14131 Date Received: 01/17/06 Batch No. : 06A078 Date Extracted: 01/18/06 Date Extracted: 01/18/06 10:45
Date Analyzed: 01/20/06 20:42 < Sample ID: 0004-072 Lab Samp ID: A078-01 Dilution Factor: 1 Lab File ID: TA19045A Matrix : SOIL % Moisture : 10.7 Instrument ID : GCT050 Ext 8tch ID: DSA016S Calib. Ref.: TA19039A RESULTS RL MDL (mg/kg) (mg/kg)

ND 11 5.6 PARAMETERS DIESEL SURROGATE PARAMETERS % RECOVERY QC LIMIT ------HEXACOSANE 71 65-135 RL : Reporting Limit Parameter H-C Range Diesel C10-C24

### METHOD 8015 by GC/FID EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ta19\ta19.045
Method : c:\ezchrom\methods\ds50a19.met

Sample ID :

: 06A078-01

: Jan 20, 2006 20:42:52 : Jan 23, 2006 09:45:22

Printed User

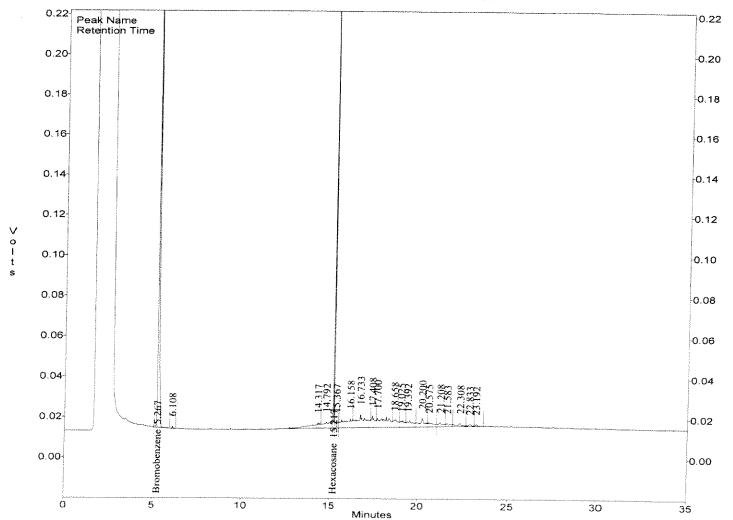
Acquired

: JANE

#### Channel A Results

| #  | Peak Name       | Ret.Time(Min) | Area    | Ave. CF | ESTD Conc. (ppm) |
|----|-----------------|---------------|---------|---------|------------------|
|    |                 |               |         |         |                  |
| 1  | Bromobenzene    | 5.267         | 1140070 | 19748.8 | 57.7             |
|    | Hexacosane      | 15.217        | 694679  | 38991.6 | 17.8             |
|    | Diesel(TOTAL)   |               | 1324404 | 25335.2 | 52.3             |
|    | Diesel(C10-C24) |               | 112783  | 25208.3 | 4.5              |
| G3 | Diesel(C10-C28) |               | 359154  | 25218.1 | 14.2             |

#### c:\ezchrom\chrom\ta19\ta19.045 -- Channel A



### QC SUMMARIES

#### METHOD 3550B/8015B TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

Client : SES-TECH Date Collected: NA

Project : CAMP PENDLETON, UST SITE 14131 Date Received: 01/18/06 Batch No. : 06A078 Date Extracted: 01/18/06 Date Extracted: 01/18/06 10:45 Date Analyzed: 01/20/06 20:01

Sample ID: MBLK1S

Lab Samp ID: DSA016SB Dilution Factor: 1 Lab File ID: TA19044A Matrix : SOIL % Moisture : NA
Instrument ID : GCT050 Ext Btch ID: DSA016S Calib. Ref.: TA19039A

RL RESULTS MDL (mg/kg) (mg/kg) (mg/kg)

ND 10 5 PARAMETERS -----DIESEL

QC LIMIT SURROGATE PARAMETERS % RECOVERY 71 65-135 HEXACOSANE

RL : Reporting Limit Parameter H-C Range Diesel C10-C24

#### EMAX QUALITY CONTROL DATA LCS/LCD ANALYSIS

CLIENT: SES-TECH

PROJECT: CAMP PENDLETON, UST SITE 14131

BATCH NO.: 06A078

METHOD 35508/80158 METHOD:

MATRIX: SOIL % MOISTURE: NA DILUTION FACTOR: 1 1 1

SAMPLE ID: MBLK1S

LAB SAMP ID: DSA016SB DSA016SL DSA016SC

LAB FILE ID: TA19044A TA19042A TA19043A DATE EXTRACTED: 01/18/0610:45 01/18/0610:45 01/18/0610:45 DATE COLLECTED: NA
DATE ANALYZED: 01/20/0620:01 01/20/0618:37 01/20/0619:19 DATE RECEIVED: 01/18/06

PREP. BATCH: DSA016S DSA016S DSA016S

CALIB. REF: TA 19039A TA19039A TA19039A

ACCESSION:

BLNK RSLT SPIKE AMT BS RSLT BS RSLT BS SPIKE AMT BSD RSLT BSD (mg/kg) % REC (mg/kg) (mg/kg) % REC RPD QC LIMIT MAX RPD PARAMETER (mg/kg) (mg/kg) % REC (%) (%) (%) ------Diesel 500 529 106 500 548 110 65-135

SPIKE AMT BS RSLT BS SPIKE AMT BSD RSLT BSD QC LIMI (mg/kg) (mg/kg) % REC (mg/kg) (mg/kg) % REC (%) QC LIMIT SURROGATE PARAMETER ------Hexacosane 25 16.9 68 25 18 72 65 - 135

5010

#### LABORATORY REPORT FOR

SES-TECH

CAMP PENDLETON, UST SITE 14131

METALS BY ICP/MERCURY

SDG#: 06A078

#### CASE NARRATIVE

CLIENT:

**SES-TECH** 

PROJECT:

**CAMP PENDLETON, UST SITE 14131** 

SDG:

06A078

#### METHOD 3050B/6010B METALS BY ICP

Two (2) soil samples were received on 01/17/06 for Metals analysis by Method 3050B/6010B in accordance with "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW846, 3<sup>rd</sup> edition.

#### 1. Holding Time

Analysis met holding time criteria.

#### 2. Method Blank

Method blank was free of contamination at half of the reporting limit.

#### 3. Lab Control Sample/Lab Control Sample Duplicate

Lab control results were within QC limit.

#### 4. Serial Dilution / Post-Analytical Spike

Sample A078-01 was analyzed for serial dilution and post-analytical spike. All QC requirements were met.

#### 5. Matrix Spike/Matrix Spike Duplicate

No MS/MSD sample was designated in this SDG.

#### 6. Sample Analysis

Samples were analyzed according to the prescribed QC procedures. All criteria were met.

#### METHOD 30508/6010B METALS BY ICP

Client : SES-TECH Date Collected: 01/17/06
Project : CAMP PENDLETON, UST SITE 14131 Date Received: 01/17/06
SDG NO. : 06A078 Date Extracted: 01/18/06 09:30

Sample ID: 0004-072 Date Analyzed: 01/19/06 19:48

 Lab Samp ID: A078-01
 Dilution Factor: 1

 Lab File ID: 173A020015
 Matrix : SOIL

 Ext Btch ID: 1PA026S
 % Moisture : 10.7

 Calib. Ref.: 173A020009
 Instrument ID : EMAXTI73

|            | RESULTS | RL      | MDL     |
|------------|---------|---------|---------|
| PARAMETERS | (mg/kg) | (mg/kg) | (mg/kg) |
| ***        |         |         |         |
| Antimony   | ND      | 11.2    | 2.24    |
| Arsenic    | 2.07    | 1.12    | .448    |
| Barium     | 92.2    | 1.12    | .224    |
| Beryllium  | .402J   | 1.12    | .224    |
| Cadmium    | .225J   | 1.12    | .112    |
| Chromium   | 23.5    | 1.12    | .224    |
| Cobalt     | 5.78    | 1.12    | .224    |
| Copper     | 17.7    | 1.12    | .224    |
| Lead       | 7.39    | 1.12    | .224    |
| Molybdenum | 1.15J   | 5.6     | .56     |
| Nickel     | 16.1    | 2.24    | .224    |
| Selenium   | .784J   | 1.12    | .56     |
| Silver     | .624J   | 1.12    | .28     |
| Thallium   | 7.23    | 1.12    | .56     |
| Vanadium   | 33.1    | 1.12    | .56     |
| Zinc       | 49.2    | 1.12    | .56     |

#### METHOD 3050B/6010B METALS BY ICP

| Client : SES-TECH       |                     | Date Collected:  | NA             |
|-------------------------|---------------------|------------------|----------------|
| Project : CAMP PENDLE   | TON, UST SITE 14131 | Date Received:   | 01/18/06       |
| SDG NO. : 06A078        |                     | Date Extracted:  | 01/18/06 09:30 |
| Sample ID: MBLK1S       |                     | Date Analyzed:   | 01/20/06 14:15 |
| Lab Samp ID: IPA026SB   |                     | Dilution Factor: | 1              |
| Lab File ID: I73A021012 |                     | Matrix :         | SOIL           |
| Ext Btch ID: IPA026S    |                     | % Moisture :     | NA             |
| Calib. Ref.: 173A021009 |                     | Instrument ID :  | EMAXTI73       |
|                         |                     |                  |                |
|                         | DE                  | SULTS RI         | MDL            |
| PARAMETERS              |                     | ig/kg) (mg/kg)   | (mg/kg)        |
|                         |                     | (1897.49)        | (119,14)       |

| PARAMETERS | RESULTS<br>(mg/kg) | RL<br>(mg/kg) | MDL<br>(mg/kg) |
|------------|--------------------|---------------|----------------|
| Antimony   | ND                 | 10            | 2              |
| Arsenic    | ND                 | 1             | .4             |
| Barium     | ND                 | 1             | .2             |
| Beryllium  | ND                 | 1             | . 2            |
| Cadmium    | ND                 | 1             | .1             |
| Chromium   | CM                 | 1             | .2             |
| Cobalt     | ND                 | 1             | .2             |
| Copper     | ND                 | 1             | .2             |
| Lead       | ND                 | 1             | .2             |
| Molybdenum | ND                 | 5             | .5             |
| Nickel     | ND                 | 2             | .2             |
| Selenium   | ND                 | 1             | .5             |
| Silver     | ND                 | 1             | . 25           |
| Thallium   | ND                 | 1             | . 5            |
| Vanadium   | ND                 | 1             | .5             |
| Zinc       | MD                 | 1             | .5             |

#### EMAX QUALITY CONTROL DATA LCS/LCD ANALYSIS

CLIENT:

METHOD:

SES-TECH

PROJECT: CAMP PENDLETON, UST SITE 14131

SDG NO.:

06A078

METHOD 3050B/6010B

MATRIX: DILTN FACTR: SAMPLE ID:

CONTROL NO.:

LAB FILE ID:

PREP. BATCH:

CALIB. REF:

DATIME EXTRCTD:

DATIME ANALYZD:

SOIL

1

IPA026S

173A021009

MBLK1S

01/18/0609:30

01/20/0614:15

IPA026SB 173A021012

IPA026SL I73A020012 IPA026SC

173A020013 01/18/0609:30 01/18/0609:30 01/19/0619:34

01/19/0619:27 IPA026S IPA026S I73A020009 173A020009 NA

DATE COLLECTED: NA

\* MOISTURE:

DATE RECEIVED: 01/18/06

ACCESSION:

| PARAMETER           | BLNK RSLT<br>mg/kg | SPIKE AMT<br>mg/kg | BS RSLT<br>mg/kg | BS<br>% REC | SPIKE AMT<br>mg/kg | BSD RSLT<br>mg/kg | BSD<br>* REC | RPD<br>* | QC LIMIT | MAX RPD |
|---------------------|--------------------|--------------------|------------------|-------------|--------------------|-------------------|--------------|----------|----------|---------|
| Antimony<br>Arsenic | ND                 | 500                | 482              | 96          | 500                | 481               | 96           | 0        | 75-125   | 25      |
| Barium              | ND                 | 100                | 98.6             | 99          | 100                | 98.4              | 98           | 0        | 75 - 125 | 25      |
| Beryllium           | ND<br>ND           | 100                | 94.6             | 95          | 100                | 94.4              | 94           | 0        | 75 - 125 | 25      |
| Cadmium             | ND<br>ND           | 100                | 99.8             | 100         | 100                | 99.9              | 100          | 0        | 75 - 125 | 25      |
| Chromium            | ND<br>ND           | 100                | 93.1             | 93          | 100                | 93.2              | 93           | 0        | 75 - 125 | 25      |
| Cobalt              | ND                 | 100<br>100         | 97.7             | 98          | 100                | 97.7              | 98           | 0        | 75 - 125 | 25      |
| Copper              | ND<br>DN           | 100                | 94.3             | 94          | 100                | 94.4              | 94           | 0        | 75 - 125 | 25      |
| Lead                | ND<br>ND           | 100                | 101              | 101         | 100                | 101               | 101          | 0        | 75 - 125 | 25      |
| Molybdenum          | DN<br>CN           | 100                | 95.3             | 95          | 100                | 95.6              | 96           | 0        | 75 - 125 | 25      |
| Nickel              | ND ND              | 100                | 98               | 98          | 100                | 98.1              | 98           | 0        | 75 - 125 | 25      |
| Selenium            | ND<br>ND           | 100                | 93.4             | 93          | 100                | 93.6              | 94           | 0        | 75 - 125 | 25      |
| Silver              | ND                 | 100                | 92.7<br>97.4     | 93          | 100                | 93.2              | 93           | 0        | 75 - 125 | 25      |
| Thallium            | ND<br>ND           | 100                | 97.4             | 97          | 100                | 97.2              | 97           | 0        | 75 - 125 | 25      |
| Vanadium            | ND                 | 100                | 97.3<br>99.7     | 97          | 100                | 97.1              | 97           | 0        | 75-125   | 25      |
| Zinc                | ND ND              | 100                | 99.7<br>96.8     | 100         | 100                | 99.7              | 100          | 0        | 75 - 125 | 25      |
| £ 1176              | NU                 | 100                | 90.8             | 97          | 100                | 96.9              | 97           | 0        | 75-125   | 25      |

#### EMAX QUALITY CONTROL DATA SERIAL DILUTION ANALYSIS

CLIENT:

SES-TECH

PROJECT:

CAMP PENDLETON, UST SITE 14131

BATCH NO.:

06A078

METHOD 30508/60108 METHOD:

MATRIX: DILUTION FACTOR: 1

SOIL

% MOISTURE:

10.7

SAMPLE ID: EMAX SAMP ID:

0004-072

0004-072DL A078-01 A078-01J

173A020015 173A020016

LAB FILE ID: DATE EXTRACTED: 01/18/0609:30 01/18/0609:30 DATE ANALYZED:

DATE COLLECTED: 01/17/06

54.3

PREP. BATCH:

IPA026S

01/19/0619:48 01/19/0619:54

DATE RECEIVED: 01/17/06

10

10

CALIB. REF:

173A020009

IPA026S 173A020009

ACCESSION:

Zinc

SMPL RSLT SERIAL DIL RSLT DIF RSLT QC LIMIT PARAMETER (mg/kg) (mg/kg) % ------Antimony ND ND 0 10 Arsenic 2.07 2.791 NA 10 Barium 92.2 96.9 10 Beryllium .402J ND NA 10 Cadmium .225J ND NA 10 Chromium 23.5 24.5 10 Cobalt 5.78 6.11 6 10 Copper 17.7 16.9 10 Lead 7.39 8.22 11\* 10 Molybdenum 1.15J ND NA 10 Nickel 16.1 17 6 10 Selenium .784J 3.65J NA 10 Silver .624J ND NA 10 Thallium 7.23 8.82 22\* 10 Vanadium 33.1 33.9 2 10

49.2

#### EMAX QUALITY CONTROL DATA ANALYTICAL SPIKE ANALYSIS

CLIENT:

SES-TECH

PROJECT:

CAMP PENDLETON, UST SITE 14131

SDG NO.:

06A078

METHOD:

METHOD 3050B/6010B

MATRIX: DILTH FACTR: SOIL

0004-072

CONTROL NO.: LAB FILE ID:

A078-01 A078-01A 173A020015 173A020014

DATIME EXTRCTD: DATIME ANALYZD: PREP. BATCH:

01/18/0609:30 01/18/0609:30 01/19/0619:48 01/19/0619:40

DATE COLLECTED: 01/17/06 IPA026S

DATE RECEIVED: 01/17/06

10.7

% MOISTURE:

CALIB. REF:

SAMPLE ID:

1PA026S 173A020009

173A020009

ACCESSION:

| PARAMETER  | SMPL RSLT<br>(mg/kg) | SPIKE AMT<br>(mg/kg) | AS RSLT<br>(mg/kg) | AS<br>% REC | QC LIMIT |
|------------|----------------------|----------------------|--------------------|-------------|----------|
| Antimony   | ND                   | 560                  | 505                | 90          | 75-125   |
| Arsenic    | 2.07                 | 112                  | 106                | 93          | 75-125   |
| Barium     | 92.2                 | 112                  | 189                | 86          | 75-125   |
| Beryllium  | .402J                | 112                  | 105                | 94          | 75-125   |
| Cadmium    | .225』                | 112                  | 97.7               | 87          | 75-125   |
| Chromium   | 23.5                 | 112                  | 125                | 91          | 75-125   |
| Cobalt     | 5. <i>7</i> 8        | 112                  | 105                | 88          | 75-125   |
| Copper     | 17.7                 | 112                  | 127                | 97          | 75-125   |
| Lead       | 7.39                 | 112                  | 108                | 90          | 75-125   |
| Molybdenum | 1.15J                | 112                  | 104                | 92          | 75-125   |
| Nickel     | 16.1                 | 112                  | 113                | 87          | 75-125   |
| Selenium   | .784J                | 112                  | 99.5               | 88          | 75-125   |
| Silver     | .624J                | 112                  | 103                | 91          | 75-125   |
| Thallium   | 7.23                 | 112                  | 109                | 91          | 75-125   |
| Vanadium   | 33.1                 | 112                  | 137                | 93          | 75-125   |
| Zinc       | 49.2                 | 112                  | 149                | 89          | 75-125   |

#### CASE NARRATIVE

CLIENT: SES-TECH

PROJECT: CAMP PENDLETON, UST SITE 14131

SDG: 06A078

#### METHOD 7471A MERCURY BY COLD VAPOR

Two (2) soil samples were received on 01/17/06 for Mercury analysis by Method 7471A in accordance with "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW846, 3<sup>rd</sup> edition.

#### 1. Holding Time

Analysis met holding time criteria.

#### 2. Method Blank

Method blank was free of contamination at half of the reporting limit.

#### 3. Lab Control Sample/Lab Control Sample Duplicate

Lab control results were within QC limit.

#### 4. Serial Dilution / Post-Analytical Spike

Sample A040-01 from another SDG was analyzed for serial dilution and postanalytical spike. All QC requirements were met.

#### 5. Matrix Spike/Matrix Spike Duplicate

MS/MSD sample was not designated in this SDG.

#### 6. Sample Analysis

Samples were analyzed according to the prescribed QC procedures. All criteria were met.

| SDG NO. : 06A078<br>Instrument ID : 71047                  | Notes Method Blank Lab Control Sample (LCS) LCS Duplicate Analytical Spike Sample Field Sample Field Sample                                            |
|------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| SDG NO.                                                    | Batch<br>1000128<br>HGA0128<br>HGA0128<br>HGA0128<br>HGA0128                                                                                           |
|                                                            | Calibration Prep. Data FN Batch M47A012008 HGA01 M47A012008 HGA01 M47A012008 HGA01 M47A012008 HGA01 M47A012008 HGA01                                   |
|                                                            | Sample<br>Data FN<br><br>M47A012010<br>M47A012011<br>M47A012013<br>M47A012015<br>M47A012015                                                            |
|                                                            | L Extraction DateTime DateTime 01/18/06/16:00 01/18/06/16:00 01/18/06/16:00 01/18/06/16:00 01/18/06/16:00 01/18/06/16:00 01/18/06/16:00 01/18/06/16:00 |
|                                                            | Analysis<br>DateTime<br>                                                                                                                               |
|                                                            | % Moist NA NA 17.4 17.4 10.7                                                                                                                           |
| 31                                                         | Bilution<br>Factor                                                                                                                                     |
| UST SITE 141                                               | Laboratory Dilution Sample ID Factor HGA012SB 1 HGA012SL 1 HGA012SC 1 A040-01A 1 A040-01J 5 A078-01 1                                                  |
| Client : SES-TECH Project : CAMP PENDLETON, UST SITE 14131 |                                                                                                                                                        |
| Client<br>Project                                          | Client<br>Sample ID<br>MBLK1S<br>LCS1S<br>LCD1S<br>S039AS<br>S039A<br>S039DL<br>0004-072                                                               |

FN · Filename % Moist · Percent Moisture

| Matrix : SOIL Instrument ID : T1047                                           | Received<br>DATETIME<br><br>01/18/06<br>01/18/06<br>01/17/06                                        |
|-------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| Matrix ; SOLL<br>Instrument ID ; T1047                                        | Collection DATETIME NA NA NA NA NA NA NA NA NA NA NA NA NA                                          |
| Matrix Instru                                                                 | PREP BATCH                                                                                          |
|                                                                               | CAL REF<br><br>M47A012008<br>M47A012008<br>M47A012008                                               |
|                                                                               | LFID<br><br>M47A012010<br>M47A012011<br>M47A012012                                                  |
|                                                                               | Extraction DATETIME LFID 01/18/0616:00 M47A012010 01/18/0616:00 M47A012011 01/18/0616:00 M47A012038 |
|                                                                               | Analysis<br>DATETIME<br><br>11/19/0614:13<br>11/19/0614:17<br>11/19/0615:12                         |
|                                                                               | MDL (mg/kg)                                                                                         |
| I} #                                                                          |                                                                                                     |
|                                                                               | DLF MOIST (mg/kg)  1 NA .1  1 NA .1  1 NA .1                                                        |
|                                                                               | 7 1                                                                                                 |
| 14131                                                                         | RESULTS (mg/kg)                                                                                     |
| Client : SES-TECH Project : CAMP PENDLETON, UST SITE 14131 Batch No. : 06A078 | EMAX<br>SAMPLE ID<br><br>HGA012SB<br>HGA012SL<br>A078-01                                            |
| Client : SES-TECH<br>Project : CAMP PENI<br>Batch No. : 06A078                | SAMPLE 1D<br>"<br>MBLK1S<br>LCS1S<br>LCD1S<br>0004-072                                              |

# EMAX QUALITY CONTROL DATA LCS/LCD ANALYSIS

CAMP PENDLETON, UST SITE 14131 SES-TECH 06A078 CL I ENT: PROJECT: SDG NO.:

METHOD:

METHOD 7471A

MATRIX:

HGA012SC HGA012SB MBLK1S CONTROL NO.: DILTN FACTR: SAMPLE ID:

×

% MOISTURE:

M47A012012 M47A012011 HGA012SL M47A012010 LAB FILE ID:

01/18/0616:00 01/19/0614:17 01/18/0616:00 (01/19/0614:15 01/19/0614:13 01/18/0616:00 DATIME EXTRCTD: DATIME ANALYZD:

01/18/06

DATE RECEIVED:

DATE COLLECTED: NA

M47A012008 HGA012S HGA012S HGA012S M47A012008 PREP. BATCH:

M47A012008 CALIB. REF:

ACCESSION:

PARAMETER

Mercury

23 OC LIMIT MAX RPD × 75-125 **8** 8 % REC . . . . . 8SD .813 BSD RSLT mg/kg .833 SPIKE AMT mg/kg 100 % REC 88 .832 BS RSLT mg/kg .833 SPIKE AMT mg/kg BLNK RSLT 9 mg/kg

# EMAX QUALITY CONTROL DATA SERIAL DILUTION ANALYSIS

CAMP PENDLETON, UST SITE 14131 METHOD 7471A SES-TECH 06A07B BATCH NO.: PROJECT: CL LENT: METHOD:

DATE COLLECTED: 01/09/06 DATE RECEIVED: 01/10/06 17.4 % MOISTURE: 01/18/0616:00 01/19/0614:24 M47A012015 A040-01J S0390L M47A012014 01/18/0616:00 01/19/0614:22 A040-01 S039 DILUTION FACTOR: 1 DATE EXTRACTED: EMAX SAMP ID: LAB FILE ID: SAMPLE 10: MATRIX:

M47A012008 HGA012S M47A012008 HGA012S DATE ANALYZED: PREP. BATCH: CALIB. REF:

ACCESSION:

10 SERIAL DIL RSLT DIF RSLT QC LIMIT ( % ) 0 × 2 2 SMPL RSLT (mg/kg) PARAMETER \* \* \* \* \* \* \* \* \* \* Mercury

EMAX QUALITY CONTROL DATA

ANALYTICAL SPIKE ANALYSIS

CAMP PENDLETON, UST SITE 14131 PROJECT:

SES-TECH

CLIENT:

06A078 SDG NO.:

METHOD 7471A METHOD:

17.4 % MOISTURE: SOIL DILTN FACTR: MATRIX:

A040-01 S039 CONTROL NO.: SAMPLE ID:

DATE COLLECTED: 01/09/06 01/18/0616:00 01/19/0614:19 A040-01A M47A012013 01/18/0616:00 01/19/0614:22 M47A012014 DATIME EXTRCTD: DATIME ANALYZD: LAB FILE ID:

M47A012008 HGA012S M47A012008 HGA012S PREP. BATCH: CALIB. REF:

01/10/06

DATE RECEIVED:

ACCESSION:

85-115 QC LIMIT 1 1 1 1 (%) % REC 88 .353 AS RSLT (mg/kg) .401 SPIKE AMT (mg/kg) SMPL RSLT 2 (mg/kg) PARAMETER f s 4 4 4 4 1 6 Mercury

#### LABORATORY REPORT FOR

SES-TECH

CAMP PENDLETON, UST SITE 14131

METHOD 9045 pH

SDG#: 06A078

#### **CASE NARRATIVE**

CLIENT:

SES-TECH

PROJECT:

**CAMP PENDLETON, USST SITE 14131** 

SDG:

06A078

#### METHOD 9045 pH

Two (2) soil samples were received on 01/17/06 for pH analysis by Method 9045 in accordance with "Method for Chemical Analysis of Water and Wastewater", EPA 600/4-79-020 (1983).

#### 1. Holding Time

Analysis met holding time criteria.

#### 2. Duplicate

Sample A078-02 was analyzed for duplicate. %RPD was within QC limit.

#### 3. Sample Analysis

Samples were analyzed according to the prescribed QC procedures. All criteria were met.

| encenencententententententententententententente                                    | Instrument 10 : 153                     | \$P\$\$P\$\$P\$\$P\$\$P\$\$P\$\$P\$\$P\$\$P\$\$P\$\$P\$\$P\$\$P\$ | Collection Received                         |
|-------------------------------------------------------------------------------------|-----------------------------------------|-------------------------------------------------------------------|---------------------------------------------|
| Client : SES-TECH<br>Project : CAMP PENDLETON, UST SITE 14131<br>Batch No. : 06A078 | Instrument 10 : 153                     | EMAX RESULTS RL MDL Analysis Extraction                           | 8.11 1 NA NA 01/17/0616:35 01/17/0616:00 PH |
| Client : SES-TEC<br>Project : CAMP PE<br>Batch No. : 06A078                         | *************************************** | SAMPLE 1D                                                         | 0004-072                                    |



#### AmeriSci Richmond

13635 GENITO ROAD MIDLOTHIAN, VA 23112

TEL: (804) 763-1200 • FAX: (804) 763-1800

#### **PLM Bulk Asbestos Report**

EMAX Laboratories, Inc. Attn: Richard Beauvil 1835 205th Street Torrance, CA 90501

report relates ONLY to the items tested.

Reviewed By:\_

Date Received 01/16/06 Date Examined 01/17/06 AmeriSci Job No. 106011328

P.O. # SES - TECH

Page 1 of 1

**RE SES - TECH** 

| Client No. / HGA                                                                   | Lab No.                                                                      | <b>Asbestos Present</b>                                                                                                                                                                                | Total % Asbestos                                       |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|
| 0004-070<br>L                                                                      | 106011328-01<br>ocation:                                                     | No                                                                                                                                                                                                     | NAD <sup>1</sup><br>(by 1000 pt ct                     |
| Asbesto                                                                            | cription: Tan, Heterogeneous, Nor<br>s Types:<br>Material: Non-fibrous 100 % | -Fibrous, Soil                                                                                                                                                                                         |                                                        |
| 0004-071<br>L                                                                      | 106011328-02<br>ocation:                                                     | No                                                                                                                                                                                                     | NAD <sup>1</sup> (by 1000 pt ct)                       |
| Asbestos                                                                           | cription: Brown, Heterogeneous, N<br>5 Types:<br>Material: Non-fibrous 100 % | on-Fibrous, Soil                                                                                                                                                                                       |                                                        |
|                                                                                    |                                                                              | ement-like Materials in Sample, which c                                                                                                                                                                | contain No Asbestos.                                   |
| Analyzed by: Gordor *NAD = no asbestos "Present" or NVA = " analyzed / positive s' | No Visible Asbestos" are observations<br>op; PLM Bulk Asbestos Analysis by E | tirod 435 with 1000 pt ct analysis  Date  Date  ing Lipits: CVES = 1%, 400 Pt Ct = 0.2  made during a qualitative analysis; NA PA 600/M4-82-020 per 40 CFR 763 (NV nples (198.6 for NOB samples)(NYSDO | = not analyzed; NA/PS = not<br>/LAP Lab #101904-0) and |

ELAP Lab # 2508; Note: PLM is not consistently reliable in detecting asbestos in floor coverings and similar NOB materials. TEM

non-asbestos-containing in New York State (also see EPA Advisory for floor tile, FR 59, 146, 38970, 8/1/94). NIST Accreditation requirements mandate that this report must not be reproduced except in full without the approval of the laboratory. This PLM

is currently the only method that can be used to determine if this material can be considered or treated as

SAMPLER NO INCE: Turn around-drie (TAT) for samples shall not begin medit all electropascies have been resolved. For samples recolved and discrepancies resolved after 1500 hrs. TAT shall snat at 0806 hrs the need business day. The elicit is responsible for all cost closes of cost and produced in the control of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of th COORDINATOR nstructions EMAX PM OMPANY END REPORT TO ROJECT DURESS <u> La - houd</u> CD - 4000 ABORATORIES, INC BIMAX Camp SAMPLE ID AR CERSIODATTE DAX Chara Chr 0 Tetan Email: info@emaxlabs.com 1835 W. 205th Street, Torrance, CA 90501 Tel #: 310-618-8889 Fax #: 310-618-0818 phrais Beauvi LOCATION SAMPLING 1/18/06 9:00 뎵 DATE 11130 Time TIME COURIER/AIRBILL त NO. CHAIN OF CUSTODY WP-Wipes FP-Puse Products SS-Soil/ Sediment WW-Waste Water D-Solid Waste SL-Studge DW=Dricking Water PO NUMBER: W-Ground Water MATRIX CODE 488 208 CONTAINER SIZE rbeauvi FAP T JAR HAKI. RECEIVED BY SS CODE HS-H2SO4 ZA=Zinc Acetate HOFN-HS HN-HNO3 HC -HC in a kee T=N225203 le emaxions lo CODE 8 AWALYSIS REQUIRED PROJECT CODE: EMAX CONTROL NO. \* Cooler# Temp. (°C) Mid Lothian, 21 days ☐ 7 days 14 days X Rush 48 days Rush 13635 Genuto 110 Amen Sa D64058-30 days 'n 106011328 COMMENTS Sample #s Ž With mon <del>V4231</del> 02 0

Babiled with sample disposal. Samples shall be balloosed of as

# APPENDIX D EXCAVATION COMPACTION REPORT



March 1, 2006 Project No. 105796001

Mr. Mark Cutler Sealaska Environmental Sevices, LLC 603 Seagaze Drive, #542 Oceanside, California 92054

Subject:

Summary of Compaction Testing

Buildings 1441, 14131, and 14137

MCB Camp Pendleton San Diego County, California

Contract N68711-04-D-1104: P.O. 058318

Dear Mr. Cutler:

In accordance with your request, Ninyo & Moore has provided geotechnical observation and testing services during the backfill operations near Buildings 1441, 14131, and 14137 on Marine Corps Base (MCB) Camp Pendleton, located in San Diego County, California. The project sites are located within Area 14 of MCB Camp Pendleton and are situated approximately 1 mile east of Vandegrift Boulevard between 15th Street and 19th Street. The purpose of our services was to observe, document, and test the materials used during the backfill operations that were conducted by the contractor. We have performed field and laboratory tests on representative soil samples to characterize the backfill soils and to evaluate the relative compaction. Our findings and conclusions are presented herein.

### BACKFILL OPERATIONS

Backfill operations observed and tested by our firm were conducted between the dates of January 31, 2006 and February 7, 2006. Our field technicians provided compaction testing on an on-call basis during the placement of compacted backfill. During backfill operations, trench excavations ranged from approximately 12 feet to 16 feet in depth. Backfill of the excavations as conducted utilizing a front-end loader and a track-hoe with a sheeps-foot attachment. In general, the loader placed and processed the backfill soil and the track-hoe applied the compaction effort. In accordance with the

project documents, the means and methods utilized to place and compact the backfill soils at depths greater than 5 feet were visually observed by our technician but we did not perform field density tests. The project documents indicated specified relative compaction for the uppermost 5 feet was a range of 90 to 95 percent for each layer with an average of 95 percent relative compaction.

### FIELD AND LABORATORY TESTING

At your request, our field technicians were on-site to perform in-place field density tests. The tests were performed in general accordance with American Society of Testing and Materials (ASTM) test method D 2922 and D 3017 (Nuclear Gauge Method) and D 1556 (Sand Cone Testing). The summary of the results of our field density tests, the approximate test depths, and the associated building locations are presented in Table 1.

Laboratory testing was performed on a representative sample of the soil used during the earthwork operations to evaluate the modified Proctor dry density/optimum moisture content and expansion index. Laboratory testing of the modified Proctor dry density and optimum moisture content was conducted in general accordance with ASTM D 1557, and the results are presented in Table 2, Modified Proctor Density Test Results. Laboratory testing of the expansion index was conducted in general accordance with UBC 18-2, and the results are presented in Table 3, Expansion Index Test Results.

### **SUMMARY**

Our technicians were on-site to observe the backfill operations. The field density tests performed during these operations indicated the specified relative compaction. Based on our observations and the results of our field and laboratory tests, it is our opinion that the backfill operations were performed in general accordance with the current standard of practice and care, and the project scope of work.

### LIMITATIONS

The geotechnical services outlined in this report have been conducted in accordance with current practice and the standard of care exercised by geotechnical consultants performing similar tasks in this area. No warranty, expressed or implied, is made regarding the observations and conclusions expressed in this report. The reported test results represent the relative compaction and moisture content at the locations tested. It is important to note that the precision of field density tests and the modified Proctor dry density tests is not exact and variations should be expected. The reported locations and depths of the density tests are estimated based on correlations with the site surroundings. Further accuracy is not implied.

We appreciate the opportunity to be of service on this project. Should you have any questions related to this report, please contact the undersigned.

Sincerely,

NINYO & MOORE

Jeffrey T. Kent, P.E.

Project Engineer

Mark Cuthbert, P.E. Principal Engineer

DLP/JTK/MC/ag/gg

Distribution: (2) Addressee

Attachments: Table 1 – Summary of Field Density Tests

Table 2 – Modified Proctor Density Test Results

Table 3 – Expansion Index Test Results

|                          |                                |             |                |           | Remarks                 |               |               |               |               |               |               |               |          |               |               |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |         |                                                            |
|--------------------------|--------------------------------|-------------|----------------|-----------|-------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------|---------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|---------|------------------------------------------------------------|
| Control Cares / Marrie C | SOMMANT OF FIELD DENSITY TESTS |             | COMPACTED FILL | Specified | Compaction              | (%)           | 90 - 95       | 90 - 95       | 90 - 95       | 90 - 95       | 90 - 95       | 90 - 95       | 90 - 95  | 90 - 95       | 90.05         | 50 00          | 70 - 70        | 90 - 95        | 90 - 95        | 90 - 95        | 90 - 95        | 90 - 95        | 90 - 95        | 90 - 95        | 90 - 95        | 90 - 95        | 90 - 95        | 90 - 95        | 90 - 95        | 90 - 95        | 90 - 95 | 95                                                         |
| TOTAL OF THE PARTY       | ELU DEN                        | 105796001   | COMPAC         | Relative  | Compaction (%)          |               | 95            | 94            | 96            | 66            | 86            | 63            | 95       | 94            | 96            | 00             | 2.6            | 25             | 93             | 96             | 96             | 97             | 97             | 93             | 86             | 96             | 86             | 94             | 86             | 66             | 66      | 96                                                         |
| DV OF ET                 | AI G FI                        | T NO.       |                | Optimim   | Moisture<br>Content (%) |               | 11.5          | 11.5          | 11.5          | 11.5          | 11.5          | 11.5          | 11.5     | 11.5          | 11.5          | 115            | 3.1            | 5.11           | 11.5           | 11.5           | 11.5           | 11.5           | 11.5           | 11.5           | 11.5           | 11.5           | 11.5           | 11.5           | 11.5           | 11.5           | 11.5    | ompaction =                                                |
| STIMENA                  | SOMIMA                         | PROJECT NO. | TEST OF:       | Proctor   | Density<br>(pcf)        |               | 122.0         | 122.0         | 122.0         | 122.0         | 122.0         | 122.0         | 122.0    | 122.0         | 122.0         | 122.0          | 0.001          | 122.0          | 122.0          | 122.0          | 122.0          | 122.0          | 122.0          | 122.0          | 122.0          | 122.0          | 122.0          | 122.0          | 122.0          | 122.0          | 122.0   | Average Relative Compaction =                              |
|                          |                                | <del></del> |                | Dry       | Density<br>(pcf)        |               | 116.2         | 114.8         | 117.6         | 120.8         | 120.0         | 113.3         | 116.3    | 114.5         | 6'911         | 112.8          | 1161           | 110.1          | 113.1          | 116.7          | 117.3          | 118.2          | 6711           | 113.0          | 119.7          | 97.11          | 119.3          | 114.2          | 119.4          | 121.1          | 121.3   | Avera                                                      |
|                          |                                | TABLE       |                | Field     | Moisture<br>(%)         | . 0           | 2.3           | 8.5           | 12.2          | 10.2          | 9.1           | 9.6           | 11.2     | 6.6           | 10.9          | 6.6            | 3.11           | 1 61           | 1.7.1          | 0.21           | 10.9           | 10.1           | 10.0           | 2.1            | 0.01           | 4.01           | C.0.1          | 8.4.8          | 1.71           | 9.7            | 10.1    |                                                            |
|                          |                                |             |                | Wet       | Density<br>(pef)        | 10.70         | 0.721         | 124.6         | 151.9         | 133.1         | 130.9         | 124.2         | 129.3    | 125.8         | 129.6         | 124.0          | 129.8          | 126.8          | 120.5          | 130.7          | 120.0          | 130.1          | 173.0          | 120 4          | 1.70.0         | 121.0          | 0.161          | 1.161          | 6.000          | 132.8          | 133.5   |                                                            |
|                          |                                | ]           |                | <u>.</u>  | No.                     | -             | 1             | -∐-           | - -           |               | _             | _             | -        |               | -             |                | _              | _              | _              | -              | -              | -   -          | -              | 1              | -              | -              | 1 1            | - [            | ٠,             | -              |         |                                                            |
| ľ                        |                                | 5           |                | Depth     | €                       | 3.0           | 3 4           | 2 5           | D .           | 3.0           | 0.7           | 0.1           | 0        | 0.0           | 0.0           | 5.0            | 5.0            | 4.0            | 4.0            | 30%            | 2.5            | 2 -            | 2 2            | 0.5            | 4.0            | 2 0            | 2 6            | 0.7            | 2 -            | 0.1            | 3       | 17)                                                        |
|                          |                                |             |                | i c       | K.3. LUCARION           | Building 1441 | Building 1441 | Building 1441 | Ruifeino 1441 | Building 1441 | Building 144: | Paristra 1441 |          | building 1441 | Building [44] | Building 14137 | Building 14137 | Building 14137 | Building 14137 | Building 14137 | Building 14137 | Building 14137 | Building 14137 | Building 14131 | Building 14131 | Building 14131 | Building [413] | Building [413] | Building 14131 | Building 14131 |         | A Performed by Nuclear Gauge method (ASTM D2922 and D3017) |
|                          |                                |             |                | ž         |                         | 2/1/06        | 2/1/06        | 1             | ī             | 1             |               | 2/1/06        | 1        |               | - 1           |                |                | 2/3/06         | 2/3/06         | 2/3/06         | 2/3/06         | T              | 2/3/06         | 2/1/06         | 2/7/06         | 2/7/06         | 3/1/06         | 2/7/06         | 2/7/06         | 2/7/06         |         | ed by Nucle,                                               |
|                          | 3                              |             |                |           | ĕ                       | b             | ű             | CF            | j             | j             | ű             | ű             | J.       |               | j (           | ול             | t              | CF             | CF             | CF             | CF             | CF             | CF             | Ç              | Ŗ              | CF             | S)             | CF.            | Çķ             | ਹ              |         | Perform                                                    |
|                          |                                | <b>-</b>    |                | Ä         | Ż                       | #             | *.            | 3#            | #             | #5            | ₹             | **            | <b>2</b> | 3 3           | 302           | \$             | *              | 17#            | 13#            | #†1            | 15#            | #91            | 17*            | *<br>81        | <b>*</b> 6!    | 20#            | 71#            | 22#            | 23#            | 7              | II.     | Ţ                                                          |

The performed by Nuclear Gauge method (ASTM D2922 and D3017)

The performed by Sand Cone method (ASTM D 1556)

Table 2 - Modified Proctor Density Test Results

|   | Soil<br>Type<br>No. | Description               | Dry<br>Density<br>(pcf) | Optimum<br>Moisture Content<br>(%) |
|---|---------------------|---------------------------|-------------------------|------------------------------------|
| L | 1                   | Grayish Brown Clayey SAND | 122.0                   | 11.5                               |

### Table 3 – Expansion Index Test Results

| Soil<br>Type<br>No. | Expansion Index | Expansion<br>Index | Specification |
|---------------------|-----------------|--------------------|---------------|
| 1                   | Very Low        | 16                 | <20           |

# APPENDIX E NON-HAZARDOUS MATERIALS WASTE MANIFESTS

## CANDELARIA ENVIRONMENTAL BIOTREATMENT FACILITY NON-HAZARDOUS MATERIALS HAULING MANIFEST

| G           | NAME: AC/S ENVIRONMENTAL SECURTIVADDRESS: P.O. BOX 553008 CITY, STATE, ZIP CAMP PRODUCTOR, CA 920                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | (14 AREA)<br>PHONE NO. (750) 725=9774<br>35 APN: 2006=06           |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| ENERAT      | WASTE DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | COMPONENTS OF WASTE (PPM)  UST SITES: 14131/14137 (441             |
| OR          | PROPERTIES: SOLID                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | CLOTHING                                                           |
|             | GENERATOR CERTIFIES THAT THESE WASTES ARE RCRAHAZARDOUS, BASED ON THE INFORMATION PROVIDED BY APPLICATION AND THE ACCOMPANYING LABORATORY DATE:  Signature / Print or Type Full Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Y THE GENERATOR ON THE SOIL ACCEPTANCE<br>ATA                      |
| H<br>A<br>U | COMPANY NAME PH ADDRESS SE CITY, STATE, ZIP PIC TRUCK TYPE: DUMP ROLL OFF OTHER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ONE NO.  RVICE ORDER NO.  K UP DATE 02 13 10 4                     |
| E<br>R      | The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s | JCK ID #                                                           |
| 3 0         | JOB SITE REPRESENTATIVE Warme   But                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | LOAD # 5<br>Signature                                              |
|             | 4001 Candelaria Lane FAX (6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | fice:<br>(619) 696-6207<br>19) 696-5117<br>nergency (619) 696-6207 |

### **CANDELARIA ENVIRONMENTAL BIOTREATMENT FACILITY**

NON-HAZARDOUS MATERIALS HAULING MANIFEST

| G             | ADDRESS: P.O. 30% 555008                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | (14 ARBA)<br>PHONE NO. (760) 725-9774                              |  |  |  |  |  |  |
|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|--|--|--|--|--|--|
| O E N E R A T | WASTE DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | PATING PROCESS ### ***                                             |  |  |  |  |  |  |
| O<br>R        | PROPERTIES: SOLID YES HANDLING INSTRUCTIONS: WEAR APPROPRIATE (                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | CLOTHING                                                           |  |  |  |  |  |  |
|               | GENERATOR CERTIFIES THAT THESE WASTES ARE RCRA NON-HAZARDOUS, AND CALIFOR HAZARDOUS, BASED ON THE INFORMATION PROVIDED BY THE GENERATOR ON THE SOIL APPLICATION AND THE ACCOMPANYING LABORATORY DATA  BY:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                    |  |  |  |  |  |  |
|               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                    |  |  |  |  |  |  |
| H<br>A<br>U   | COMPANY NAME PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHOTOSTAL PHO | K LIP DATE                                                         |  |  |  |  |  |  |
| L<br>E        | TRUCK LIC. #TRL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | JCK ID #                                                           |  |  |  |  |  |  |
| R             | DRIVER NAMETRA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                    |  |  |  |  |  |  |
|               | DRIVER SIGNATURE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | TRAILER ID #                                                       |  |  |  |  |  |  |
| D             | TIME LEFT JOB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | LOAD # 16                                                          |  |  |  |  |  |  |
| P R O C I     | JOB SITE REPRESENTATIVE Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                    |  |  |  |  |  |  |
| E S S O R     | 4001 Candelaria Lane FAX (6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | fice:<br>(619) 696-6207<br>19) 696-5117<br>nergency (619) 696-6207 |  |  |  |  |  |  |

M 9-97

## **CANDELARIA ENVIRONMENTAL**

# BIOTREATMENT FACILITY NON-HAZARDOUS MATERIALS HAULING MANIFEST

| G                | NAME: AC/S ENVIRONMENTAL SECURTE ADDRESS: P.O. BOX 553008 CITY, STATE, ZIP CAMP PENDLETON, CA                                  | (14 AREA)<br>97055 PHONE NO. (760) 725-9774                                            |
|------------------|--------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| E                | CITY, STATE, ZIP                                                                                                               | APN:                                                                                   |
| N<br>E<br>R<br>A | WASTE DESCRIPTIONNON-HAZ_SOIL_(COMPONENTS OF WASTE (PPM)                                                                       | GENERATING PROCESS UST LEAK COMPONENTS OF WASTE (PPM) UST SITES: 14131/14137/1441      |
| T                |                                                                                                                                |                                                                                        |
| O<br>R           | PROPERTIES: SOLIDYES HANDLING INSTRUCTIONS: WEAR APPROPR                                                                       | IATE CLOTHING                                                                          |
|                  | GENERATOR CERTIFIES THAT THESE WASTES ARE HAZARDOUS, BASED ON THE INFORMATION PROVID APPLICATION AND THE ACCOMPANYING LABORATO | PED BY THE GENERATOR ON THE COURSESSESSES                                              |
|                  | BY: Signature / Print or Type Full Name                                                                                        | DATE: / S / S / S                                                                      |
|                  | COMPANY NAME                                                                                                                   | PLIONE NO                                                                              |
| Н                | ADDRESS                                                                                                                        | PHONE NO. STATE SERVICE ORDER NO.                                                      |
| A<br>U           | ADDRESSCITY, STATE, ZIPTRUCK TYPE: DUMPROLL OFFOTHE                                                                            | PICK UP DATE 02 3 06                                                                   |
| L<br>E           | TRUCK LIC. #                                                                                                                   |                                                                                        |
| R                | DRIVER NAME                                                                                                                    | TRAILER LIC. #_ 417 A-167                                                              |
|                  | DRIVER SIGNATURE                                                                                                               | TRAILER ID #                                                                           |
| D                | TIME LEFT JOB 1250                                                                                                             | LOAD # \1                                                                              |
| PROCE            | JOB SITE REPRESENTATIVE Name                                                                                                   | Signature Signature                                                                    |
| S<br>S<br>O<br>R | CANDELARIA ENVIRONMENTAL 4001 Candelaria Lane F,                                                                               | ain office:<br>hone:(619) 696-6207<br>AX (619) 696-5117<br>hr Emergency (619) 696-6207 |

## CANDELARIA ENVIRONMENTAL

# BIOTREATMENT FACILITY NON-HAZARDOUS MATERIALS HAULING MANIFEST

|                  | (951) 763-0129                                                                                                     | 24 m Emergency (619) 696-6207                                                                                   |
|------------------|--------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| S<br>S<br>O<br>R | Deliver to facility Location:  CANDELARIA ENVIRONMENTAL  4001 Candelaria Lane  Anza, CA 92539                      | Main office: Phone:(619) 696-6207 FAX (619) 696-5117                                                            |
| ROCE             | JOB SITE REPRESENTATIVE (人) Name                                                                                   | Signature                                                                                                       |
| Р                | TIME LEFT JOB                                                                                                      | LOAD # 18                                                                                                       |
|                  | DRIVER SIGNATURE                                                                                                   | TRAILER ID # 1 1                                                                                                |
| R                |                                                                                                                    | 7 TRAILER LIC. # 46(9684)                                                                                       |
| L<br>E           | TRUCK LIC. # 740 73124                                                                                             | TRUCK ID #                                                                                                      |
| H<br>A<br>U      | COMPANY NAME KICKER OFF  ADDRESS 990 A FO BOM  CITY, STATE, ZIP  TRUCK TYPE: DUMP X ROLL OFF                       |                                                                                                                 |
|                  | COMPANY NAME RICHARD SUSTE                                                                                         | PHONE NO. 619 318 7016                                                                                          |
|                  | BY: Signature / Print or Type Full Name                                                                            | DATE:                                                                                                           |
|                  | GENERATOR CERTIFIES THAT THESE WASTES HAZARDOUS, BASED ON THE INFORMATION PI APPLICATION AND THE ACCOMPANYING LABO | S ARE RCRA NON-HAZARDOUS, AND CALIFORNIA NON-<br>ROVIDED BY THE GENERATOR ON THE SOIL ACCEPTANCE<br>RATORY DATA |
|                  | HANDLING INSTRUCTIONS: WEAR APPE                                                                                   |                                                                                                                 |
| R                | PROPERTIES: SOLID YES                                                                                              |                                                                                                                 |
| T                |                                                                                                                    | 33: 32:63: 14:31/14:37/1441                                                                                     |
| FI<br>A          | DIESEL-IMPACTED SOIL                                                                                               | COMPONENTS OF WASTE (PPM)  UST SITES: 14131/14137/1441                                                          |
| N<br>E           | WASTE DESCRIPTION NON-HAZ SOIL COMPONENTS OF WASTE (PPM.)                                                          | GENERATING PROCESS UST LEAK                                                                                     |
| E                |                                                                                                                    | APN:                                                                                                            |
| سر               | NAME: AC/S ENVIRONMENTAL SECTION ADDRESS: P.O. BOX 555008                                                          | DUONE NO (340) 200 000                                                                                          |
|                  |                                                                                                                    |                                                                                                                 |

## CANDELARIA ENVIRONMENTAL BIOTREATMENT FACILITY NON-HAZARDOUS MATERIALS HAULING MANIFEST

|        | A.1.A.2.07                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |  |  |  |  |  |  |
|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|--|--|
|        | NAME: AC/S ENVIRONMENTAL SECURTLY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | (14 AREA)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |
|        | ADDRESS: F.V. SVX 333008                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | PHONE NO. (760) 725-9774                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |  |  |  |  |  |  |
|        | G   CITY, STATE, ZIPCAMP PENDLETON, CA 92                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 055 APN: 2006-06                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |  |  |  |  |  |  |
| E      | E                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | / W IV.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |
| Ν      | N WASTE DESCRIPTION GEN_HAZ_SOIL_ GEN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | IEDATING PROCESS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |  |  |  |  |  |  |
| E      | E COMPONENTS OF WASTE (PPM)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | COMPOSES UST LEAK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |  |  |  |  |  |  |  |
| R      | E COMPONENTS OF WASTE (PPM)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | COMPONENTS OF WASTE (PPM)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |
| Α      | A DIESEL-IMPACTED SOIL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | UST SITES: 14131/14137/1441                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |  |  |  |  |  |  |  |
| Т      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |  |  |  |  |  |  |
| -      | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | · · · · · · · · · · · · · · · · · · ·                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |  |  |  |  |  |  |  |
| R      | MANA,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |  |  |  |  |  |  |
| , ,    | THO LITTLES, SOLID IND                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |  |  |  |  |  |  |
|        | HANDLING INSTRUCTIONS: WEAR APPROPRIATE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | CLOTHING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |  |  |  |  |  |  |
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|        | GENERATOR CERTIFIES THAT THESE WASTES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |  |  |  |  |  |  |
|        | HAZARDOUS BASED ON THE INFORMATION PROVIDED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | GENERATOR CERTIFIES THAT THESE WASTES ARE RCRA NON-HAZARDOUS, AND CALIFORNIA NON-HAZARDOUS, BASED ON THE INFORMATION PROVIDED BY THE CENTER OF THE CONTROL OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER OF THE CENTER O |  |  |  |  |  |  |  |  |
|        | APPLICATION AND THE ACCOMPANYING LABORATORY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |  |  |  |  |  |  |
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|        | Signature / Print or Type Full Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | DATE: / 3 / F                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |  |  |  |  |  |
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|        | COMPANY NAME Wist Coast P ADDRESS TO Box (ST-1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | HONE NO 1/2 ULL 16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |  |  |  |  |  |  |
| Н      | ADDRESS O Box 1521 S CITY, STATE, ZIP Local CA PI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | EDVICE ODDED NO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |  |  |  |  |  |  |
| A      | CITY, STATE ZIP CALL CALL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | CK ND DATE 13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |  |  |  |  |  |
| ΰ      | TRUCK TYPE: DUMP Y ROLL OFF OTHER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | CK UP DATE 2-13-06                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |  |  |  |  |  |  |
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| R      | DRIVER NAME JUST Probects TE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 11/2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |  |  |  |  |  |  |  |
|        | TF TOUR TE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | AILER LIC. # 1 7 1 7225                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |
|        | DDD VED CLOSUS / // // // //                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |  |  |  |  |  |  |
|        | UNIVER SIGNATURE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | TRAILER ID # 1 × 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |  |  |  |  |  |  |
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| -      | TIME LEFT JOB 1370                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | LOAD# 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |
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| R      | JOB SITE REPRESENTATIVE WAY TO THE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |  |  |  |  |  |  |
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| S      | Deliver to facility Location: Main of                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |  |  |  |  |  |  |
| S      | CANDELADIA ENUMBANASA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |  |  |  |  |  |  |
| ŏ      | 1 4001 Condoloria Laura                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | e:(619) 696-6207                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |  |  |  |  |  |  |
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| 11     | A112a, CA 92539 24th E                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | mergency (619) 696-6207                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |
|        | (951) 763-0129                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 3-17 (010) 000 020/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |  |  |  |  |  |  |
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# CANDELARIA ENVIRONMENTAL BIOTREATMENT FACILITY

## NON-HAZARDOUS MATERIALS HAULING MANIFEST

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|          | NAME: AC/S ENVIRONMENTAL SECURTI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | (14 AREA)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|          | ADDRESS: P.O. BOX 555008 CITY, STATE, ZIP CAMP PENDLETON, CA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | PHONE NO (760) 725-9774                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| G        | G CITY, STATE, ZIP CAMP PENDLETON, CA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 92055 APN: 2006-06                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
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| Ν        | WASTE DESCRIPTION NON-HAZ SOIL (                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | SENEDATING PROCESS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
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| R        | COMPONENTS OF WASTE (PPM)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | COMPONENTS OF WASTE (PPM)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|          | DIESEL-IMPACTED SOIL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
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|          | HANDLING INSTRUCTIONS: WEAR APPROPR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ATE OLOTHING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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|          | GENERATOR CERTIFIES THAT THESE WASTES ARE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | DCDA NON HAZADDONO AND COMME                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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|          | COMPANY NAME                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | DUONENO // KO ) 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
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| R        | JOB SITE REPRESENTATIVE WOYLY BU                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
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M 9-97

# P CESSO R

# CANDELARIA ENVIRONMENTAL BIOTREATMENT FACILITY

## NON-HAZARDOUS MATERIALS HAULING MANIFEST

|          | NAME: AC/S ENVIRONMENTAL SECURTLY (                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 14 AREA)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
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| G        | ADDRESS: P.O. BOX 555008 CITY, STATE, ZIP CAMP PENDLETON, CA 9205                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | PHONE NO. (760) 725-9774                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| E        | Off I, Office, 211                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | APN:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Ν        | WASTE DESCRIPTION NON-HAZ SOIL GENE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | RATING PROCESS DET LEAK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| E<br>R   | COMPONENTS OF WASTE (PPM)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | COMPONENTS OF WASTE (PPM)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| A        | DIESEL-IMPACTED SOIL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | UST SITES: 14131/14137/1441                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
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| R        | PROPERTIES: SOLID YES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | _                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|          | HANDLING INSTRUCTIONS: WEAR APPROPRIATE C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | LOTHING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
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|          | GENERATOR CERTIFIES THAT THESE WASTES ARE RCRA HAZARDOUS, BASED ON THE INFORMATION PROVIDED BY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | NON-HAZARDOUS, AND CALIFORNIA NON-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|          | APPLICATION AND THE ACCOMPANYING LABORATORY DA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | THE GENERATOR ON THE SOIL ACCEPTANCE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
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|          | BY:Signature / Print or Type Full Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | DATE:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
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|          | COMPANY NAME PHO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | DNE NO. 6164-1148-47266                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| H  <br>A | SEP SEP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | IVICE ORDER NO.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Û        | TRUCK TYPE: DUMPROLL OFF OTHER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | (UP DATE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
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| Εļ       | TRUCK LIC. # TRU                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | CK ID #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| R        | DRIVER NAME / TRAIL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | LER LIC. # 6 T ( ) 5 9 5 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
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|          | DRIVER SIGNATURE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | TRAILER ID #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| F        | TIME LETT IOD 13116                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| ,        | TIME LEFT JOB 1345                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | LOAD # 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 1        | JOB SITE REPRESENTATIVE WORLD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | F ( / A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| )        | Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Signature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Signature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|          | Dalinasta da sida da ser                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|          | Deliver to facility Location:  CANDELARIA ENVIRONMENTAL  Main offi Phone:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|          | 10010                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 619) 696-6207<br>9) 696-5117                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 1        | 17/10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ergency (619) 696-6207                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| (        | (951) 763-0129                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 92                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| -        | .97                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

## NON-HAZARDOUS MATERIALS HAULING MANIFEST

|              | NAME: AU/3 ENVIRONMENTAL SECURTLY (14 AREA)                                                                                                                                                                            |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| _            | ADDRESS: P.O. BOX 535008 PHONE NO. (760) 725-9774                                                                                                                                                                      |
| G            | ADDRESS: P.O. BOX 535008 PHONE NO. (760) 725-9774  CITY, STATE, ZIP CAMP PENDLETON, CA 92055 APN: 2006-06                                                                                                              |
| ENERAT       | WASTE DESCRIPTION                                                                                                                                                                                                      |
| O<br>R       | PROPERTIES: SOLID YES HANDLING INSTRUCTIONS: WEAR APPROPRIATE CLOTHING                                                                                                                                                 |
|              | GENERATOR CERTIFIES THAT THESE WASTES ARE RCRA NON-HAZARDOUS, AND CALIFORNIA NON-HAZARDOUS, BASED ON THE INFORMATION PROVIDED BY THE GENERATOR ON THE SOIL ACCEPTANCE APPLICATION AND THE ACCOMPANYING LABORATORY DATA |
|              | BY: DATE:                                                                                                                                                                                                              |
|              | Signature / Print or Type Full Name                                                                                                                                                                                    |
|              |                                                                                                                                                                                                                        |
|              | COMPANY NAME PHONE NO.                                                                                                                                                                                                 |
| H            | SERVICE ORDER NO.                                                                                                                                                                                                      |
| Α            | CITY, STATE, ZIP PICK UP DATE                                                                                                                                                                                          |
| U            | TRUCK TYPE: DUMPROLL OFFOTHER                                                                                                                                                                                          |
| L<br>E       | TRUCK LIC. #                                                                                                                                                                                                           |
| R            | DRIVER NAME TRAILER LIC. # 4/14/                                                                                                                                                                                       |
|              | DRIVER SIGNATURETRAILER ID #                                                                                                                                                                                           |
| <sub>P</sub> | TIME LEFT JOB 1420 LOAD # 22 Last Local                                                                                                                                                                                |
| R<br>O       | JOB SITE REPRESENTATIVE WHYBYYOUT Signature Signature                                                                                                                                                                  |
| <u> </u>     |                                                                                                                                                                                                                        |
|              | Deliver to facility Location:  CANDELARIA, ENVIRONMENTAL  4001 Candelaria Lane  Anza, CA 92539  (951) 763-0129  Main office: Phone: (619) 696-6207  FAX (619) 696-5117  24 hr Emergency (619) 696-6207                 |

### MEMORANDUM

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CANDELARIA ENVIRONMENTAL COMPANY (CEC)

FROM:

AC/S Environmental Security

COMPANY:

MCB- Camp Pendleton (760) 725-9774

SUBJECT:

SELF CERTIFICATION STATEMENT

PROJECT:

Marine Corps Base (MCB) Sites 14131/14137/1441 MCB-Camp Pendleton, CA.

(700) 725-9774

Consistent with California Code of Regulations (CCR) Title 22 and the US EPA 40 Code of Federal Regulations (CFR) requirements and policies we have obtained representative soil samples from the above referenced project to classify the hydrocarbon contaminated soil as Resource Conservation and Recovery (RCRA) Non-Hazardous and California Non-Hazardous.

Based on our best knowledge the site history is as follows:

Source of Contamination:

Leaking USTs

Dissel

Type of Contamination: Total Volume of Material (Estimated): 700 Tons (475 CV)

On the basis of the site history information and the laboratory tests results submitted with the CEC Soll Acceptance Application and as summarized on the attached Soll Profile Form, we certify the project soils as RCRA Non-Hazardous and California Non-Hazardous. As the generator we will maintain this record for review as required for the permitted handling consistent with CCR Title 22 and 26.

SOIL PROFILE FORM

PROJECT: Murine Corps Base, Camp Pendleton, CA (UST Site 1491) 1447, 14131, 14137

GENERATOR: AC/S Environmental Security-P.O. Box 555008, Camp Pendleton, CA.

| total number of samples                                                | TESTED:                            | 174                                                       |                |                  |
|------------------------------------------------------------------------|------------------------------------|-----------------------------------------------------------|----------------|------------------|
|                                                                        | ·                                  | NT = Not Tested<br>ND = Non Detect<br>NA = Not Applicable |                |                  |
| ANALYTICAL<br>METHOD                                                   | MUMUM                              | MUMIXAM                                                   | ETHEL          |                  |
| 7RPH                                                                   | NA                                 |                                                           | mg/kg          |                  |
| IPH-E Jet Fue<br>Diese<br>Oi<br>gas                                    | ND<br>ND                           | <10<br>10000<br>320<br>300                                | mg/kg<br>mg/kg |                  |
| PA 8020:                                                               |                                    |                                                           |                |                  |
| BENZENE                                                                | ND                                 | <0.005                                                    | mg/kg          |                  |
| Toluene                                                                | NO                                 | 0.091                                                     | mg/kg          |                  |
| ETHYLDENZENE                                                           | MD                                 | 0.19                                                      | mg/kg          |                  |
| XYLENES                                                                | MO                                 | 0.4                                                       | mg/kg          |                  |
| EAO:                                                                   |                                    |                                                           |                |                  |
| TTLC                                                                   | NA                                 |                                                           | mg/kg          |                  |
| STLC                                                                   | <b>W</b>                           |                                                           | mg/l           |                  |
| ORGANIC                                                                | NA                                 |                                                           | mg/kg          |                  |
| THER: VOC.                                                             | NO                                 | <reg. lavels<="" td=""><td>mo/kg</td><td></td></reg.>     | mo/kg          |                  |
| Vill this material pass the EP Pa<br>the material in a solid state, no | ints Tosts for S<br>has flowing He | ludge/Soilds Designation?<br>juide?)                      | YES            | 7000 <b>0</b> 00 |
| pH: 7.88 to 7.73                                                       |                                    | FLASHPOINT: NT                                            | REACTIVITY: NT |                  |

GEC ACCEPTANCE A:

2004-08

11/2 =